

2021

MARYLAND ANNUAL HIV EPIDEMIOLOGICAL PROFILE

Data reported through
June 30, 2022

CENTER FOR HIV
SURVEILLANCE,
EPIDEMIOLOGY AND
EVALUATION

Infectious Disease Prevention and
Health Services Bureau
Prevention and Health Promotion
Administration



Acknowledgements

This report is published by The Center for HIV Surveillance, Epidemiology and Evaluation (CHSEE). This report would not have been possible without the cooperation, dedication and hard work of HIV health care providers, local health departments, community groups, researchers, and members of the community.

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Suggested Citation

Maryland Annual HIV Epidemiological Profile 2021. Center for HIV Surveillance, Epidemiology and Evaluation, Maryland Department of Health, Baltimore, MD. 2022.

On the Web

<https://health.maryland.gov/phpa/OIDEOR/CHSE/SiteAssets/Pages/statistics/Maryland-Annual-HIV-Epidemiological-Profile-2021.pdf>

Additional Information and Reporting Instructions

<https://health.maryland.gov/phpa/OIDEOR/CHSE/Pages/reporting-material.aspx>

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Table of Contents

Section I – Summary of Analyses and Technical Notes	6
Section II – Trends 1985-2021.....	10
Figure 1 – Trends in Reported HIV and AIDS Diagnoses and Deaths, among Residents at Diagnosis, 1985-2021, Reported through June 30, 2022	10
Figure 1A – Trends in Rates of Reported HIV and AIDS Diagnoses, among Residents at Diagnosis Aged 13+, 2012-2021, Reported through June 30, 2022	11
Figure 2 – Trends in People Living with Diagnosed HIV, among Residents at Diagnosis, 1985-2021, Reported through June 30, 2022	12
Figure 3 – Trends in People Aged 13+ Living with Diagnosed HIV, among Current Residents, 2012-2021, Reported through June 30, 2022	13
Figure 4 – Trends in Reported HIV Diagnoses, among Residents at Diagnosis Aged 13+, by Sex at Birth, 1985-2021, Reported through June 30, 2022	14
Figure 4A – Trends in Rates of Reported HIV Diagnoses, among Residents at Diagnosis Aged 13+, by Sex at Birth, 2012-2021, Reported through June 30, 2022	16
Figure 5 – Trends in Reported HIV Diagnoses, among Residents at Diagnosis Aged 13+, by Race/Ethnicity, 1985-2021, Reported through June 30, 2022	17
Figure 5A – Trends in Rates of Reported HIV Diagnoses, among Residents at Diagnosis Aged 13+, by Race/Ethnicity, 2012-2021, Reported through June 30, 2022	19
Figure 6 – Trends in Reported HIV Diagnoses, among Residents at Diagnosis Aged 13+, by Age at HIV Diagnosis, 1985-2021, Reported through June 30, 2022	20
Figure 6A – Trends in Rates of Reported HIV Diagnoses, among Residents at Diagnosis Aged 13+, by Age at HIV Diagnosis, 2012-2021, Reported through June 30, 2022	22
Figure 7 – Trends in Reported HIV Diagnoses, among Residents at Diagnosis Aged 13+, by Estimated Exposure Category, 1985-2021, Reported through June 30, 2022	23
Section III – Continuum of Care Cascades	25
Figure 8 – Prevalence-Based Estimated 2021 HIV Continuum of Care Cascades, among Current Maryland Residents Aged 13+, Reported through June 30, 2022	25
Figure 8A – Prevalence-Based Estimated 2021 HIV Continuum of Care Cascades, among Current Maryland Residents Aged 13+, by Sex at Birth, Reported through June 30, 2022	26
Figure 8B – Prevalence-Based Estimated 2021 HIV Continuum of Care Cascades, among Current Maryland Residents Aged 13+, by Race/Ethnicity, Reported through June 30, 2022	27
Figure 8C – Prevalence-Based Estimated 2021 HIV Continuum of Care Cascades, among Current Maryland Residents Aged 13+, by Age on December 31, 2021, Reported through June 30, 2022.....	28
Figure 8D – Prevalence-Based Estimated 2021 HIV Continuum of Care Cascades, among Current Maryland Residents Aged 13+, by Estimated Exposure Category, Reported through June 30, 2022	29
Figure 9 – Diagnosis-Based Estimated 2021 HIV Continuum of Care Cascades, among Current Maryland Residents Aged 13+, Reported through June 30, 2022.....	31
Section IV – By Jurisdiction.....	32
Table 1 – Reported HIV Diagnoses and Reported AIDS Diagnoses, among People Aged 13+ during 2021, by Jurisdiction of Residence at Diagnosis, Reported through June 30, 2022	33
Table 2 – Reported HIV Diagnoses, among People Aged 13+ during 2021, Linked to Care, Viral Suppression, Late Diagnosis, and First CD4 Test Result by Jurisdiction of Residence at Diagnosis, Reported through June 30, 2022.....	34

Table 3 – People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2021, by Jurisdiction of Residence at Diagnosis and Current Residence, Reported through June 30, 2022	35
Table 4 – CD4 Test Results during 2021 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2021, by Jurisdiction of Current Residence, Reported through June 30, 2022	36
Table 5 – Viral Load Test Results during 2021 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2021, by Jurisdiction of Current Residence, Reported through June 30, 2022	37
Section V – By Age.....	38
Table 6 – Reported HIV Diagnoses during 2021, Linked to Care, Viral Suppression, Late Diagnosis, and First CD4 Test Result by Age at HIV Diagnosis, Reported through June 30, 2022	38
Table 7 – People Living with Diagnosed HIV, Alive on December 31, 2021, by Age on December 31, 2021, Reported through June 30, 2022	38
Table 8 – CD4 Test Results during 2021 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2021, by Age on December 31, 2021, Reported through June 30, 2022	38
Table 9 – Viral Load Test Results during 2021 for People Living with Diagnosed HIV, Alive on December 31, 2021, by Age on December 31, 2021, Reported through June 30, 2022	39
Section VI – By Demographics	40
Table 10 – Reported HIV Diagnoses, among People Aged 13+ during 2021, Linked to Care, Viral Suppression, Late Diagnosis, and First CD4 Test Result by Sex at Birth, Gender, Race/Ethnicity, and Country of Birth, Reported through June 30, 2022	40
Table 11 – Reported HIV Diagnoses, among People Aged 13+ during 2021 by Sex at Birth and Race/Ethnicity, Reported through June 30, 2022	41
Table 12 – People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2021, by Sex at Birth, Gender, Race/Ethnicity, and Country of Birth, Reported through June 30, 2022	42
Table 13 – People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2021, by Sex at Birth and Race/Ethnicity, Reported through June 30, 2022	43
Table 14 – CD4 Test Results during 2021 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2021, by Sex at Birth, Gender, Race/Ethnicity, and Country of Birth, Reported through June 30, 2022	44
Table 15 – Viral Load Test Results during 2021 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2021, by Sex at Birth, Gender, Race/Ethnicity, and Country of Birth, Reported through June 30, 2022	45
Table 16 – Females Living with Diagnosed HIV by Age on December 31, 2021 and Race/Ethnicity, Alive on December 31, 2021, and Reported through June 30, 2022	46
Table 17 – Males Living with Diagnosed HIV by Age on December 31, 2021 and Race/Ethnicity, Alive on December 31, 2021, and Reported through June 30, 2022	47
Section VII – By HIV Exposure Category	48
Table 18 – Reported HIV Diagnoses, among People Aged 13+ during 2021, Linked to Care, Viral Suppression, Late Diagnosis, and First CD4 Test Result, by Estimated or Reported Exposure Category and Sex at Birth, Reported through June 30, 2022	48
Table 19 – People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2021, by Estimated or Reported Exposure Category and Sex at Birth, Reported through June 30, 2022	49
Table 20 – People Aged 13+ Living with Diagnosed HIV by Estimated or Reported Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on December 31, 2021, and Reported through June 30, 2022	50
Table 21 – CD4 Test Results during 2021 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2021, by Estimated or Reported Exposure Category, Reported through June 30, 2022	51

Table 22 – Viral Load Test Results during 2021 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2021, by Estimated or Reported Exposure Category, Reported through June 30, 2022...	51
Section VIII – Disease Progression and Mortality	52
Figure 10 – Trends in Disease Progression by Year of HIV Diagnosis, 1985-2020, Reported through June 30, 2022....	52
Figure 11 – Trends in Survival Times by Year of AIDS Diagnosis, 1985-2020, Reported through June 30, 2022	54
Section IX – Pediatrics	56
Figure 12 – Trends in Reported HIV Diagnoses among People Aged <13, 1985-2021, Reported through June 30, 2022	56
Table 23 – People Aged <13 Living with Diagnosed HIV, Alive on December 31, 2021, by Jurisdiction of Current Residence, Reported through June 30, 2022	58
Table 24 – People Aged <13 Living with Diagnosed HIV, Alive on December 31, 2021, by Sex at Birth and Race/Ethnicity, Reported through June 30, 2022	59
Table 25 – Perinatal HIV Transmissions by Year of Birth, 2012-2021.....	59
Glossary of Terms.....	60

Section I – Summary of Analyses and Technical Notes

Highlights of Analyses

CHSEE in MDH is responsible for the collection, analysis, and dissemination of HIV surveillance data for the state of Maryland. The annual epidemiological profiles, fact sheets, maps and other reports are provided to summarize information about the HIV epidemic in Maryland.

All rates presented below are per 100,000 population.

HIV Diagnoses

During 2021, there were 773 reported HIV diagnoses in Maryland. Data presented below describe HIV diagnoses in Maryland, among people ages 13 years and older, during 2021.

- Geographic distribution: Prince George's County accounted for the highest number (244, 31.6%) of HIV diagnoses. The rate was highest in Baltimore City (32.8).
- Age: Persons aged 20-39 years accounted for the highest number (467, 60.4%) of HIV diagnoses and the highest rate (28.8).
- Sex at Birth: Males accounted for the highest number (578, 74.8%) of HIV diagnoses. The rate among males was 23.0 and 7.3 among females.
- Race/Ethnicity: Non-Hispanic Black people accounted for the highest number (556, 71.9%) and the second highest rate (35.4).
- Exposure Category: Male-to-male sexual contact accounted for the highest number (416, 53.8%) of diagnoses.

People Living with Diagnosed HIV

At the end of 2021, there were 32,149 people living with diagnosed HIV in Maryland. Data presented below describe people living with diagnosed HIV, aged 13 years and older, in Maryland.

- Geographic distribution: Baltimore City accounted for the highest number (10,471, 32.6%) of people living with diagnosed HIV and the highest rate (2,134.2).
- Age: Persons aged 50+ years accounted for the highest number (17,272, 53.7%) of people living with diagnosed HIV and the highest rate (766.6).
- Sex at Birth: Males accounted for the highest number (21,310, 66.3%) of people living with diagnosed HIV. The rate among males was 849.8 and 403.0 among females.
- Race/Ethnicity: Non-Hispanic Black people accounted for the highest number (23,916, 74.4%) of the people living with diagnosed HIV and the second highest rate (1,524.7).
- Exposure Category: Male-to-male sexual contact accounted for the highest number (13,089, 40.7%) of the total people living with diagnosed HIV.

Engagement in HIV Care

- HIV diagnosed: Among people living with HIV in Maryland, it is estimated that 90.8 percent have been diagnosed and an estimated 3,257 people with HIV remain undiagnosed.
- Linked to care: During 2021, 85.8 percent of reported HIV diagnoses were linked to HIV care within one month of their HIV diagnosis.
- Retained in care: Among people living with diagnosed HIV, 77.9 percent were retained in care during 2021.
- Viral suppression: In 2021, 64.8 percent of people living with diagnosed HIV achieved viral suppression.

Technical Notes

HIV/AIDS Reporting

The Maryland HIV/AIDS Reporting Act of 2007 requires that people living with diagnosed HIV be reported by name to MDH. As per the reporting requirements of Health-General Articles 18-201.1, 18-202.1, and 18-205 of the Annotated Code of Maryland, as specified in the Code of Maryland Regulations (COMAR) 10.18.02, physicians are required to report patients in their care with diagnoses of HIV or AIDS and babies born to mothers living with HIV, clinical and infection control practitioners in medical and correctional facilities are required to report patients in the care of the institution with diagnoses of HIV or AIDS, and laboratory directors are required to report all HIV diagnostic and HIV-related monitoring test results, including HIV negative test results.

Report Changes

In order to be responsive to changing data needs, the following update has been made to this report:

- The terminology for gender identity has been updated.
- Viral suppression within six months after HIV diagnosis has been added to all tables describing reported HIV diagnoses (Tables 2, 6, 10, and 18) and the HIV care continuums (Figure 8A-D, and Figure 9). As a result, linkage to HIV care within three months has been removed from all tables and figures describing reported HIV diagnoses but is available upon request.

Data Specifications

Surveillance is the ongoing systematic collection, analysis, interpretation, and dissemination of data. Data are collected on all people with HIV who were residents of the state of Maryland or received HIV care in Maryland. Data are presented for people who were Maryland residents at the time of their HIV diagnosis in 2021 and for people who were living with HIV and were current residents of Maryland as of December 31, 2021.

Data presented were reported to the MDH through June 30, 2022. Reported new diagnoses and estimates of people living with diagnosed HIV are as of December 31, 2021.

This report presents data with a six-month reporting delay. This lag allows for time to report case and laboratory data and to complete investigations. Due to reporting delays, estimates by exposure category and mortality are preliminary.

Please read all table titles and footnotes carefully to ensure a complete understanding of the displayed data. A glossary of terms is also available.

COVID-19 and HIV Surveillance Data

Data for 2020 and 2021 should be interpreted with caution due to the impact of the Coronavirus Disease 2019 (COVID-19) pandemic on access to HIV testing and care-related services.

The following HIV morbidity estimates may have been affected by the COVID-19 pandemic.

- Incidence (new HIV infections or transmissions) estimates might be lower due to significant declines in the number of new HIV diagnoses.
- Declines in HIV diagnoses might not represent declines in new HIV infections, but rather decreases and/or delays in testing or changes in testing modality (e.g., self-testing).
- Caution should be used when interpreting prevalence (people living with HIV) estimates. Fewer HIV diagnoses and more deaths (resulting in lower prevalence) may be due to COVID-19 and not HIV activities.
- Declines in linkage to care, retention in care, and viral suppression estimates may be due to lack of laboratory testing during care visits (e.g., telemedicine) and/or changes in testing modality (e.g., self-testing).

The table below describes year-over-year changes in the aggregate estimates of HIV in Maryland. Important to note, the reporting lag for complete death data is longer than the six months utilized for HIV surveillance data. As

a result, the percent change in the number of deaths is considered normal for recent years. Updated mortality estimates will be reflected in future reports.

Estimate	Data Year			Percent Change Year to Year	
	2019	2020	2021	2019 to 2020	2020 to 2021
HIV Diagnoses	928	719	775	-22.5%	7.8%
AIDS Diagnoses	482	395	441	-18.0%	11.6%
Deaths	437	473	252	8.2%	-46.7%
Estimated HIV Incidence*	690	610	--	-11.6%	--
Estimated Percent Undiagnosed*	9.5%	9.2%	--	-3.2%	--
People Living with Diagnosed HIV	32,010	31,870	32,149	-0.4%	0.9%

*Estimates are for the most recent years available.

Geographic Distribution

Residence at diagnosis is used exclusively to describe new diagnoses. Estimates of people living with diagnosed HIV use current residence. Current residence estimates are restricted to people for which there is a case report form or laboratory test reported since January 1, 2009. Restricting address data to recent years presents the most accurate data available and helps to account for people that may have moved out of state whose data would no longer be reported in Maryland. However, current residence data excludes people that may still be residents of Maryland but have not received any HIV care since prior to 2009. In addition, residence is dynamic and people living with diagnosed HIV may have resided at multiple addresses that cannot all be represented in single time point estimates. Current residence assignments are constantly updated as new information becomes available and represent the best information available at the time of the estimate.

Residents of Correctional Facilities

New diagnoses of HIV and people living with diagnosed HIV who were reported to be residing in local jails or detention centers are presented, whenever possible, as residing at their home address. New diagnoses of HIV and people living with diagnosed HIV who were reported to be residing in a state or federal prison in Maryland are

presented as residing in a separate “Corrections” jurisdiction.

Undiagnosed HIV Infections

The Centers for Disease Control and Prevention (CDC), using national surveillance data, estimates that the number of people living with undiagnosed HIV infection, among people living with HIV, is 13.3 percent in the United States.¹ Applying the same estimation method to Maryland surveillance data, the estimated number of people living with undiagnosed HIV infection in Maryland is 9.2 percent in 2020.

AIDS Diagnoses

CD4+ T-lymphocyte tests are measures of a person’s immune system function. An adult living with diagnosed HIV is considered to have AIDS if they have less than 200 CD4+ cells per microliter of blood, if the percent of T-Lymphocyte cells that are CD4+ is less than 14 percent, or if a person has been diagnosed with an opportunistic infection.

Mortality

People are assumed to be alive unless reported as deceased. Caution should be exercised when interpreting mortality estimates for recent years due to delays in reporting of non-AIDS deaths and out-of-state deaths. Most deaths are reported within two years.

Engagement in HIV Care

Treatment recommendations are that a person in HIV medical care should have their CD4 and viral load levels measured regularly, at least once per year. The presence of these lab tests is used as an indicator that someone has been “linked to care” after diagnosis or is “retained in care.”

Viral Suppression

Viral load tests are measures of the amount of HIV in a person’s body. The goal of HIV treatment is to have a low number of copies of virus per milliliter of blood, below what the test can measure, which is called an undetectable level. Low levels of viral load, such as less than 200 copies per milliliter of blood, is known as viral suppression. Estimates of viral suppression among

¹Centers for Disease Control and Prevention. Estimated HIV incidence and prevalence in the United States, 2015–2019. HIV Surveillance Supplemental Report 2021;26(No. 1). <http://www.cdc.gov/hiv/library/reports/hiv-surveillance.html>. Published May 2021. Accessed May 2021.

people living with diagnosed HIV are inclusive of people diagnosed in the specified year; therefore, they may not have had sufficient time to engage in HIV care and/or achieve viral suppression.

Gender Identity

Historically, it has been difficult to present data by gender. No reliable system exists for collecting or reporting gender identity and some agencies do not collect or have complete data on gender. This report is likely underreporting the number gender diverse people living with diagnosed HIV because of challenges in accurately identifying and reporting gender in HIV surveillance.

Race/Ethnicity

The completeness of reporting for race/ethnicity is variable in surveillance data. Definitions of race/ethnicity categories may vary across reporting sources and some reporting sources do not collect or have complete data on race/ethnicity. In this report, Hispanic/Latino persons can be of any race.

Country of Birth

The completeness of reporting a person's country of birth is variable in surveillance data. Not all reporting sources collect or have complete data on nativity. In addition, some individuals may immigrate to the United States with HIV. HIV testing data from other countries is often unavailable for these people; therefore, they are counted as a new diagnosis following their first HIV related lab test in the United States, even if they were first diagnosed elsewhere.

HIV Exposure Categories

The CDC developed a hierarchy of exposure categories for surveillance purposes. Persons with more than one reported risk factor are classified in the exposure category listed first in the hierarchy and counted only once. Men who report a history of sexual contact with other men and report injection drug use constitutes a separate transmission category.

Sources of Data

Information on HIV and AIDS diagnoses, including residence, age, race/ethnicity, sex at birth, gender

identity, country of birth, vital status, HIV exposure category, and CD4 and HIV viral load test results are from MDH's Enhanced HIV/AIDS Reporting System (eHARS), as of June 30, 2022.

Population data by sex, age, and race/ethnicity are from the July 1, 2021 United States Census Estimates. Population data by country-of-birth are from the Census Bureau's 2020 American Community Survey. This produces a difference in total population due to the different source. Due to estimation limitations, some population totals may not equal the sum of its components. When needed, age groups were divided by assuming uniform age distribution within the age group. Non-Hispanic multiple races and Non-Hispanic other race from the Census were combined into one group.

Tabulation of Column Totals

Numbers in figures, tables and generally in the text have been rounded. Discrepancies in tables between totals and sums of components are due to rounding.

Data Suppression

In order to protect the confidentiality of people living with HIV, data are suppressed in the following instances:

- Data describing a demographic group or geographic area (e.g., ZIP code) with a population less than 1,000 people.
- All clinical/laboratory information if it is describing less than five people.
- If any cell is suppressed, additional cells are also suppressed as necessary to prevent back calculation of the suppressed cell(s).

Tables presenting clinical/laboratory information for reported new diagnoses by ZIP code will present only ZIP codes with at least five people. Exposure/risk data is not suppressed due to statistical adjustments resulting in the presentation of estimated or probable risk.

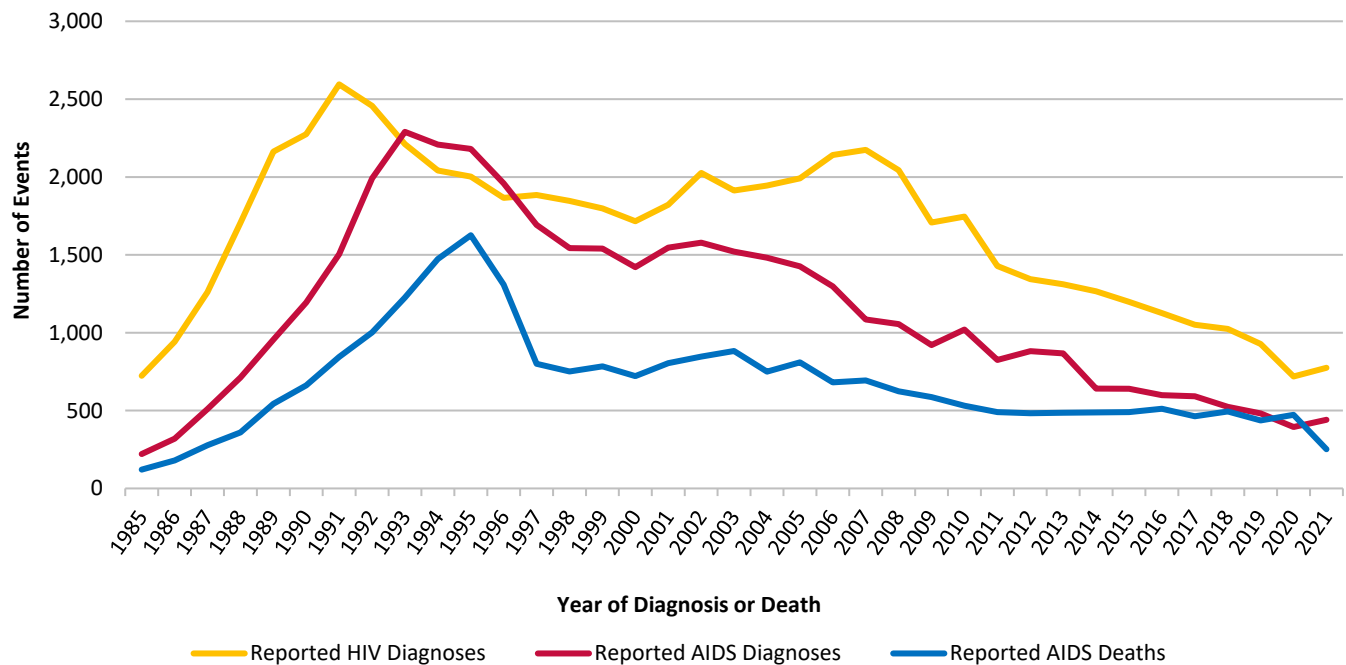
Multiple Imputation

Not all exposure data is reported and is therefore missing in some instances. Multiple imputation is a statistical method by which missing exposure categories are replaced with estimated or probable exposure categories. Perinatal transmission and other exposure categories are never estimated or adjusted and depict the reported exposure category.

Section II – Trends 1985-2021

Figure 1 – Trends in Reported HIV and AIDS Diagnoses and Deaths, among Residents at Diagnosis, 1985-2021, Reported through June 30, 2022

People Diagnosed with HIV (Reported HIV Diagnoses) by Year of HIV Diagnosis, People Diagnosed with HIV with an AIDS Diagnosis (Reported AIDS Diagnoses) by Year of AIDS Diagnosis, and People Diagnosed with HIV with an AIDS Diagnosis Reported to have Died of Any Cause (Reported AIDS Deaths) by Year of Death, from 1985 through 2021, as Reported through June 30, 2022



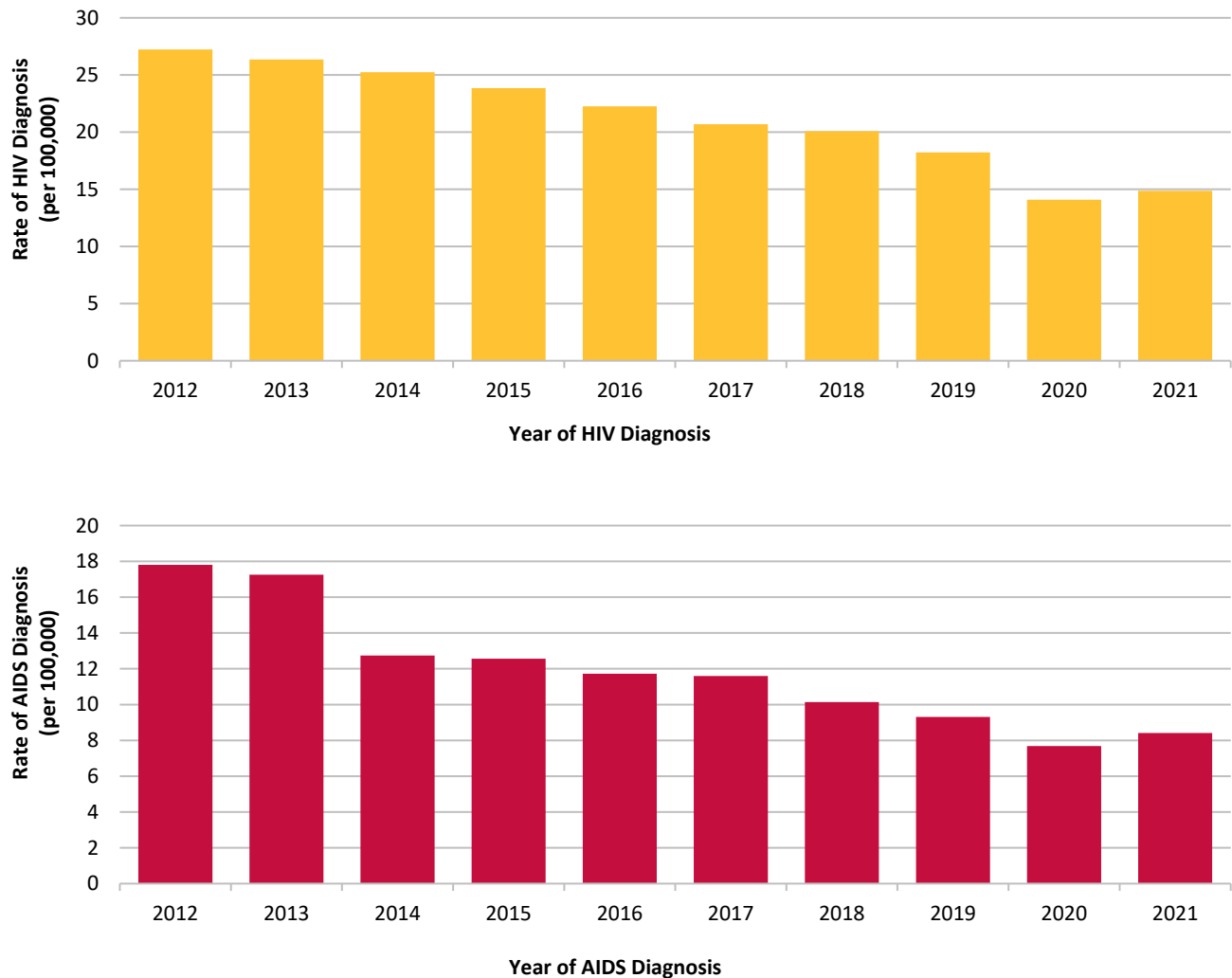
Year of Diagnosis or Death	Reported HIV Diagnoses	Reported AIDS Diagnoses	Reported AIDS Deaths	Year of Diagnosis or Death	Reported HIV Diagnoses	Reported AIDS Diagnoses	Reported AIDS Deaths
<1985	387	150	72	2003	1,913	1,521	883
1985	723	221	121	2004	1,945	1,482	750
1986	942	320	180	2005	1,991	1,426	810
1987	1,261	510	278	2006	2,141	1,298	681
1988	1,706	712	360	2007	2,174	1,085	694
1989	2,163	956	544	2008	2,044	1,055	624
1990	2,275	1,194	662	2009	1,708	921	587
1991	2,595	1,504	845	2010	1,746	1,020	531
1992	2,457	1,991	1,002	2011	1,428	825	490
1993	2,211	2,290	1,226	2012	1,344	882	483
1994	2,042	2,208	1,473	2013	1,311	867	486
1995	2,003	2,180	1,626	2014	1,266	641	488
1996	1,866	1,959	1,309	2015	1,198	640	490
1997	1,885	1,692	801	2016	1,126	599	512
1998	1,846	1,543	751	2017	1,051	592	463
1999	1,798	1,540	784	2018	1,024	524	494
2000	1,716	1,421	721	2019	928	482	437
2001	1,822	1,546	805	2020*	719	395	473
2002	2,026	1,578	847	2021*	775	441	252
				Total	61,556	42,211	25,035

*2020-2021 reported AIDS deaths are preliminary.

Data for 2020 and 2021 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing and care-related services.

Figure 1A – Trends in Rates of Reported HIV and AIDS Diagnoses, among Residents at Diagnosis Aged 13+, 2012-2021, Reported through June 30, 2022

Rates of Reported HIV and AIDS Diagnoses, Aged 13+ at HIV Diagnosis, by Year of HIV Diagnosis from 2012 through 2021, as Reported through June 30, 2022

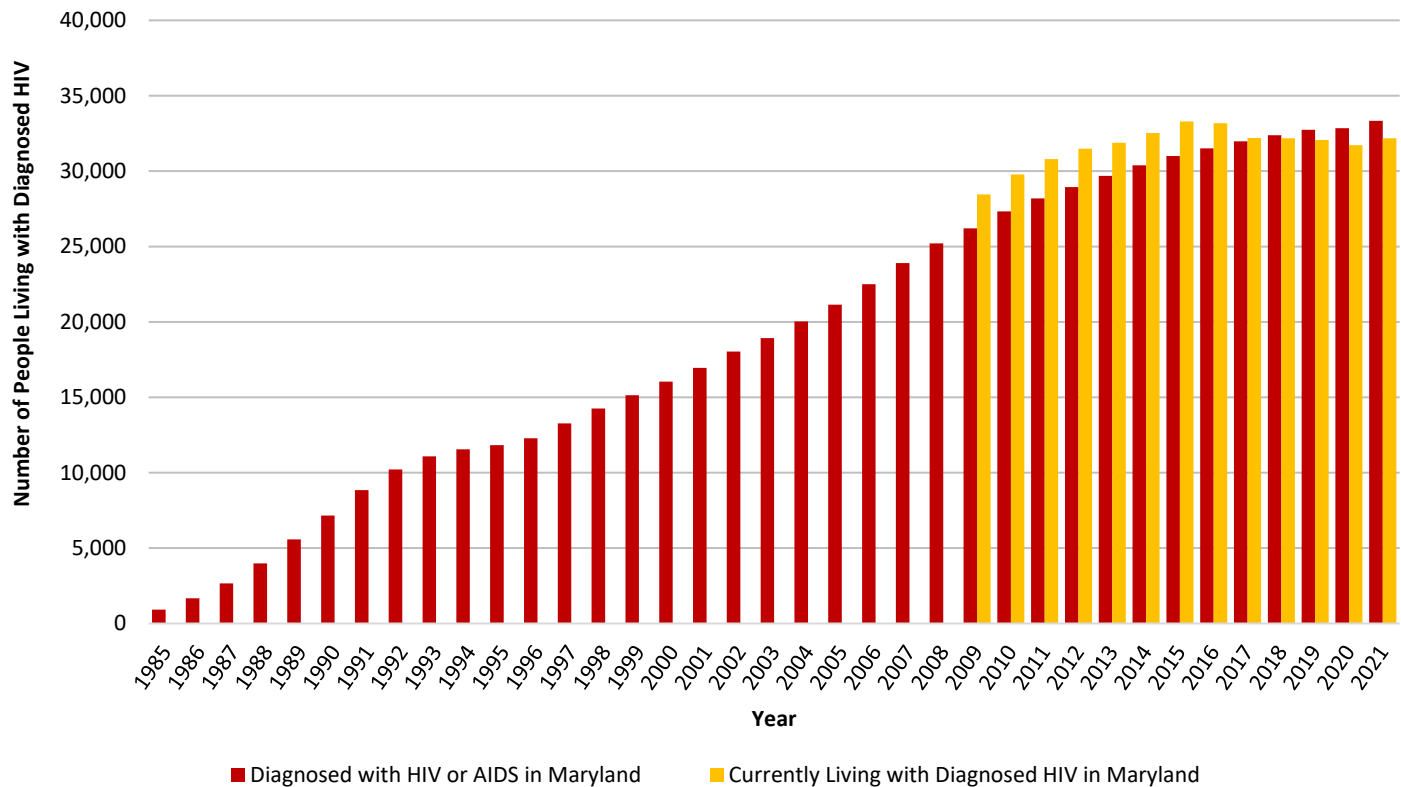


Year of Diagnosis	Population Aged 13+	Reported Diagnoses among People Aged 13+			
		HIV Diagnoses		AIDS Diagnoses	
		Number	Rate	Number	Rate
2012	4,924,980	1,341	27.2	877	17.8
2013	4,961,211	1,308	26.4	856	17.3
2014	4,992,540	1,260	25.2	636	12.7
2015	5,021,929	1,198	23.9	631	12.6
2016	5,040,917	1,122	22.3	591	11.7
2017	5,063,009	1,048	20.7	587	11.6
2018	5,078,738	1,020	20.1	515	10.1
2019	5,093,122	928	18.2	474	9.3
2020	5,098,929	718	14.1	392	7.7
2021	5,197,078	773	14.9	437	8.4

Data for 2020 and 2021 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing and care-related services.

Figure 2 – Trends in People Living with Diagnosed HIV, among Residents at Diagnosis, 1985-2021, Reported through June 30, 2022

People Living with Diagnosed HIV in Maryland and Not Reported to have Died as of December 31st of Each Year (People who were Diagnosed with HIV or AIDS in Maryland and/or People who are Currently Living with Diagnosed HIV in Maryland) from 1985 through 2021, as Reported through June 30, 2022

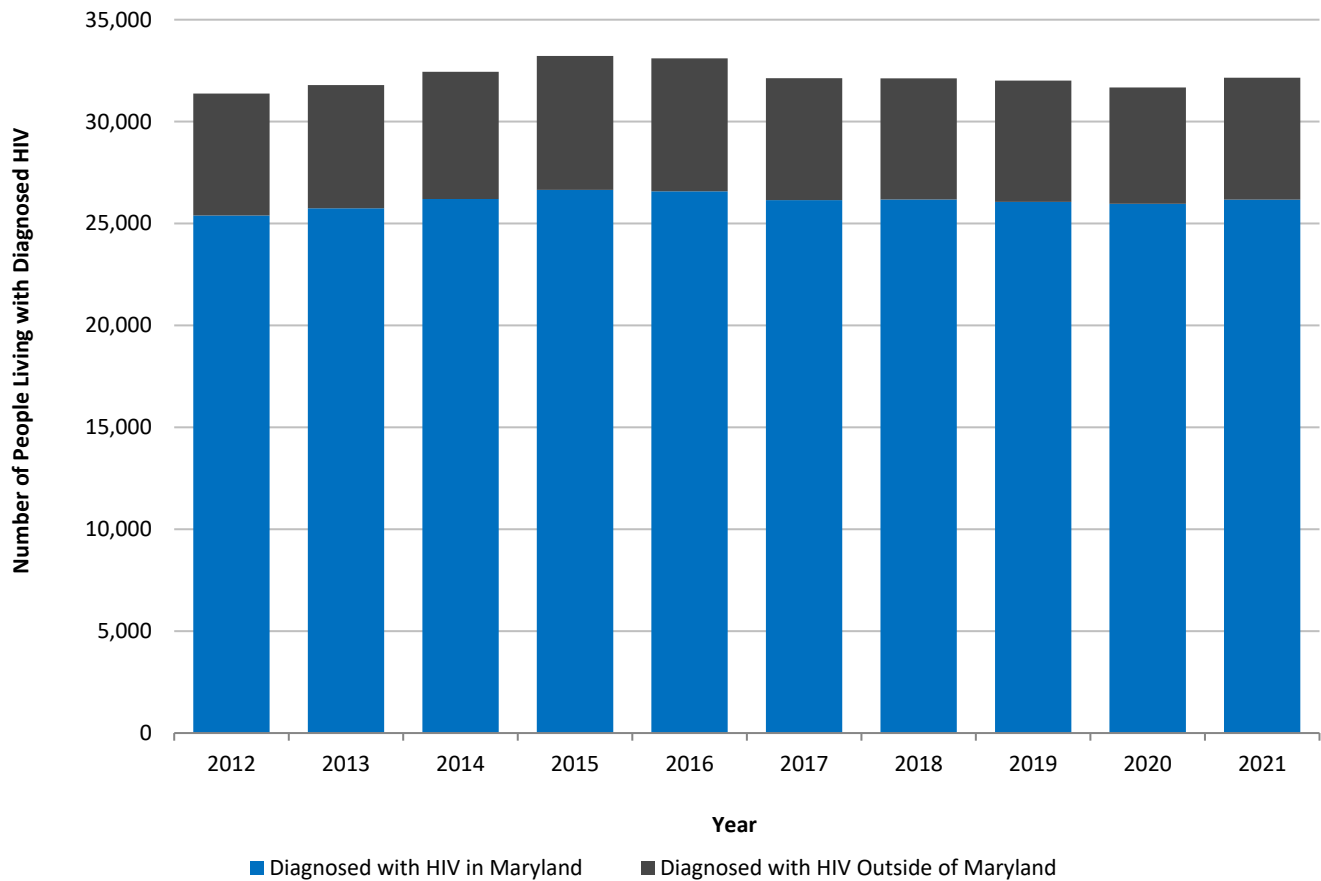


People Living with Diagnosed HIV			People Living with Diagnosed HIV		
Year	Diagnosed with HIV or AIDS in Maryland	Current Residents	Year	Diagnosed with HIV or AIDS in Maryland	Current Residents
1985	918	--	2003	18,924	--
1986	1,676	--	2004	20,035	--
1987	2,661	--	2005	21,147	--
1988	3,991	--	2006	22,506	--
1989	5,578	--	2007	23,899	--
1990	7,161	--	2008	25,208	--
1991	8,851	--	2009	26,210	28,452
1992	10,219	--	2010	27,334	29,786
1993	11,085	--	2011	28,190	30,805
1994	11,550	--	2012	28,946	31,486
1995	11,824	--	2013	29,687	31,886
1996	12,280	--	2014	30,382	32,533
1997	13,273	--	2015	31,003	33,294
1998	14,259	--	2016	31,510	33,178
1999	15,143	--	2017	31,977	32,204
2000	16,038	--	2018	32,379	32,183
2001	16,955	--	2019	32,738	32,061
2002	18,032	--	2020	32,844	31,719
			2021	33,336	32,183

Note. Current residence for people living with diagnosed HIV is unavailable prior to 2009.

Figure 3 – Trends in People Aged 13+ Living with Diagnosed HIV, among Current Residents, 2012-2021, Reported through June 30, 2022

People Living with Diagnosed HIV in Maryland and Not Reported to have Died as of December 31st of Each Year from 2012 through 2021, as Reported through June 30, 2022

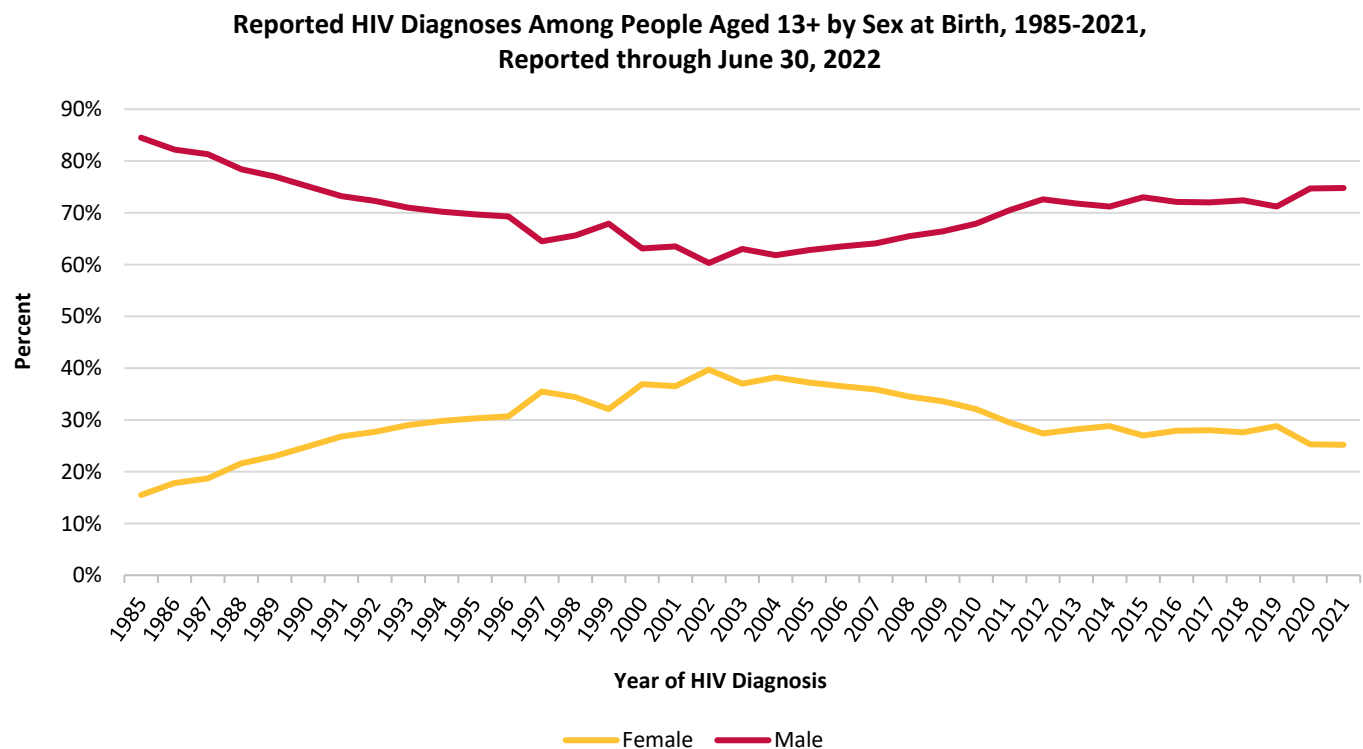
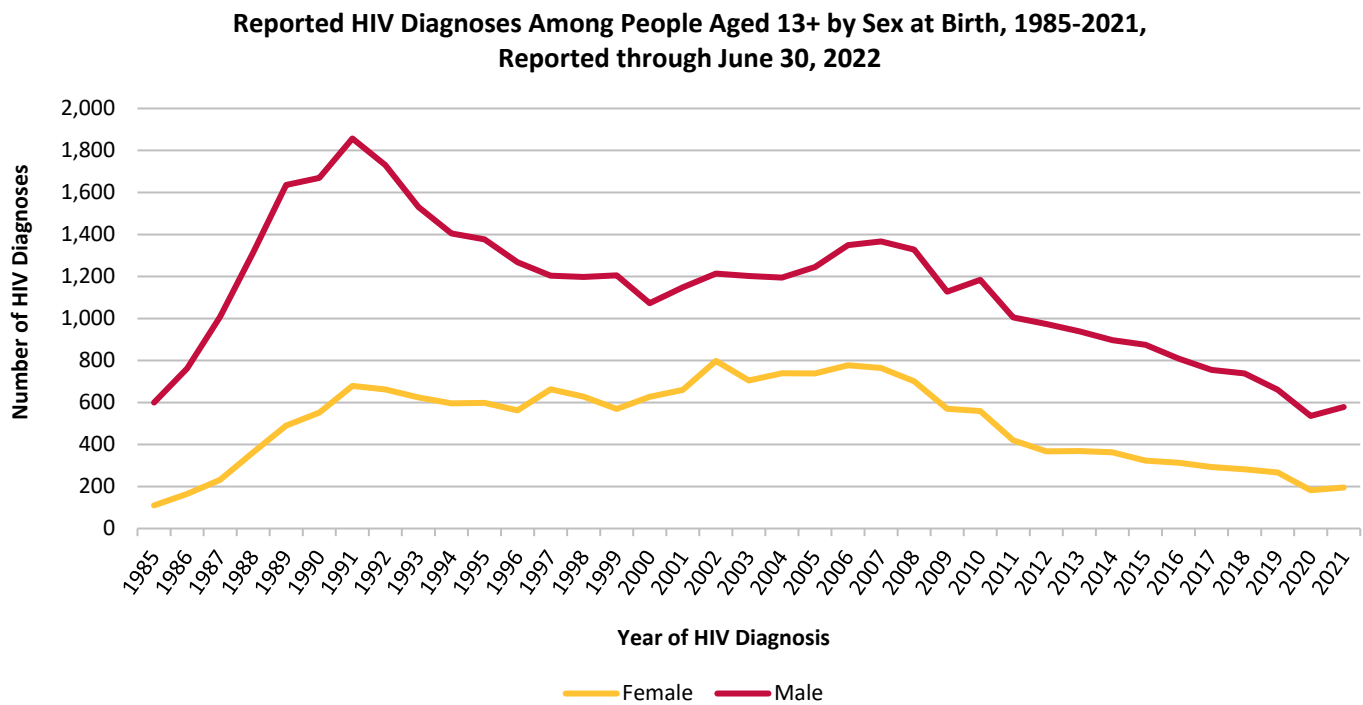


Year	Population Aged 13+	Maryland Residents Aged 13+ as of December 31st of the Specified Year			
		Diagnosed with HIV in Maryland	Diagnosed with HIV Outside of Maryland	Total	Rate
2012	4,924,980	25,390	5,982	31,372	637.0
2013	4,961,211	25,750	6,038	31,788	640.7
2014	4,992,540	26,201	6,243	32,444	649.8
2015	5,021,929	26,651	6,568	33,219	661.5
2016	5,040,917	26,578	6,521	33,099	656.6
2017	5,063,009	26,148	5,983	32,131	634.6
2018	5,078,738	26,181	5,940	32,121	632.5
2019	5,093,122	26,062	5,948	32,010	628.5
2020	5,098,929	25,963	5,713	31,676	621.2
2021	5,197,078	26,167	5,982	32,149	618.6

Data for 2020 and 2021 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing and care-related services.

Figure 4 – Trends in Reported HIV Diagnoses, among Residents at Diagnosis Aged 13+, by Sex at Birth, 1985-2021, Reported through June 30, 2022

Number and Percent by Sex at Birth of People Diagnosed with HIV, Aged 13+ at HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2021, as Reported through June 30, 2022

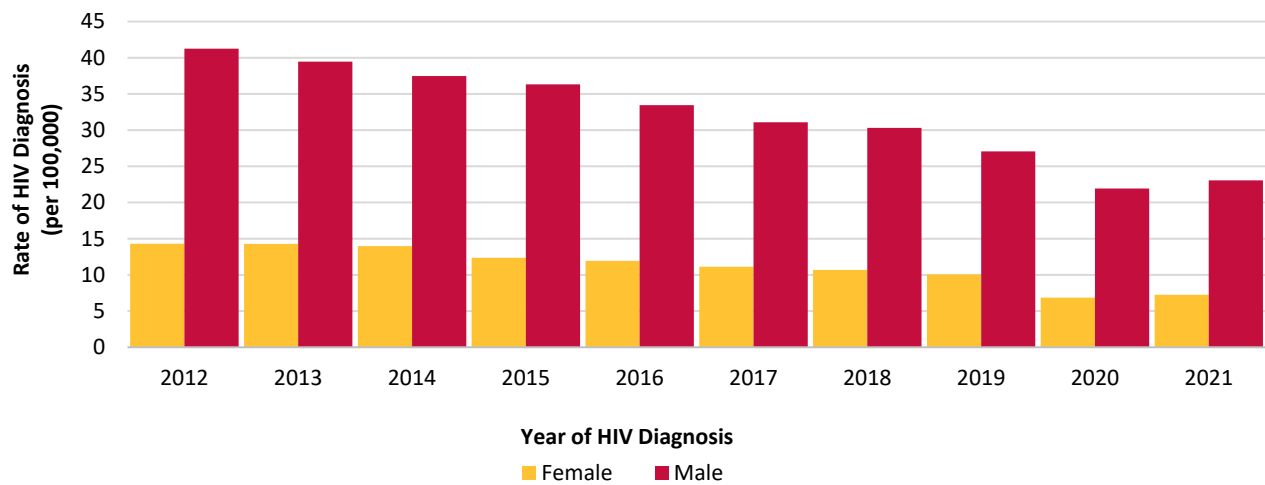


Reported HIV Diagnoses among People Aged 13+					
Year of HIV Diagnosis	Number	Sex at Birth			
		Female		Male	
		Number	Percent	Number	Percent
<1985	382	43	11.3%	339	88.7%
1985	710	110	15.5%	600	84.5%
1986	927	165	17.8%	762	82.2%
1987	1,240	232	18.7%	1,008	81.3%
1988	1,677	363	21.6%	1,314	78.4%
1989	2,126	490	23.0%	1,636	77.0%
1990	2,221	552	24.9%	1,669	75.1%
1991	2,536	679	26.8%	1,857	73.2%
1992	2,392	662	27.7%	1,730	72.3%
1993	2,155	624	29.0%	1,531	71.0%
1994	2,001	596	29.8%	1,405	70.2%
1995	1,975	598	30.3%	1,377	69.7%
1996	1,830	562	30.7%	1,268	69.3%
1997	1,867	663	35.5%	1,204	64.5%
1998	1,826	628	34.4%	1,198	65.6%
1999	1,774	569	32.1%	1,205	67.9%
2000	1,700	627	36.9%	1,073	63.1%
2001	1,808	660	36.5%	1,148	63.5%
2002	2,012	798	39.7%	1,214	60.3%
2003	1,907	705	37.0%	1,202	63.0%
2004	1,934	739	38.2%	1,195	61.8%
2005	1,983	738	37.2%	1,245	62.8%
2006	2,126	777	36.5%	1,349	63.5%
2007	2,131	764	35.9%	1,367	64.1%
2008	2,029	701	34.5%	1,328	65.5%
2009	1,698	570	33.6%	1,128	66.4%
2010	1,743	559	32.1%	1,184	67.9%
2011	1,425	420	29.5%	1,005	70.5%
2012	1,341	367	27.4%	974	72.6%
2013	1,308	369	28.2%	939	71.8%
2014	1,260	363	28.8%	897	71.2%
2015	1,198	323	27.0%	875	73.0%
2016	1,122	313	27.9%	809	72.1%
2017	1,048	293	28.0%	755	72.0%
2018	1,020	282	27.6%	738	72.4%
2019	928	267	28.8%	661	71.2%
2020	718	182	25.3%	536	74.7%
2021	773	195	25.2%	578	74.8%
Total	60,851	18,548	30.5%	42,303	69.5%

Data for 2020 and 2021 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing and care-related services.

Figure 4A – Trends in Rates of Reported HIV Diagnoses, among Residents at Diagnosis Aged 13+, by Sex at Birth, 2012-2021, Reported through June 30, 2022

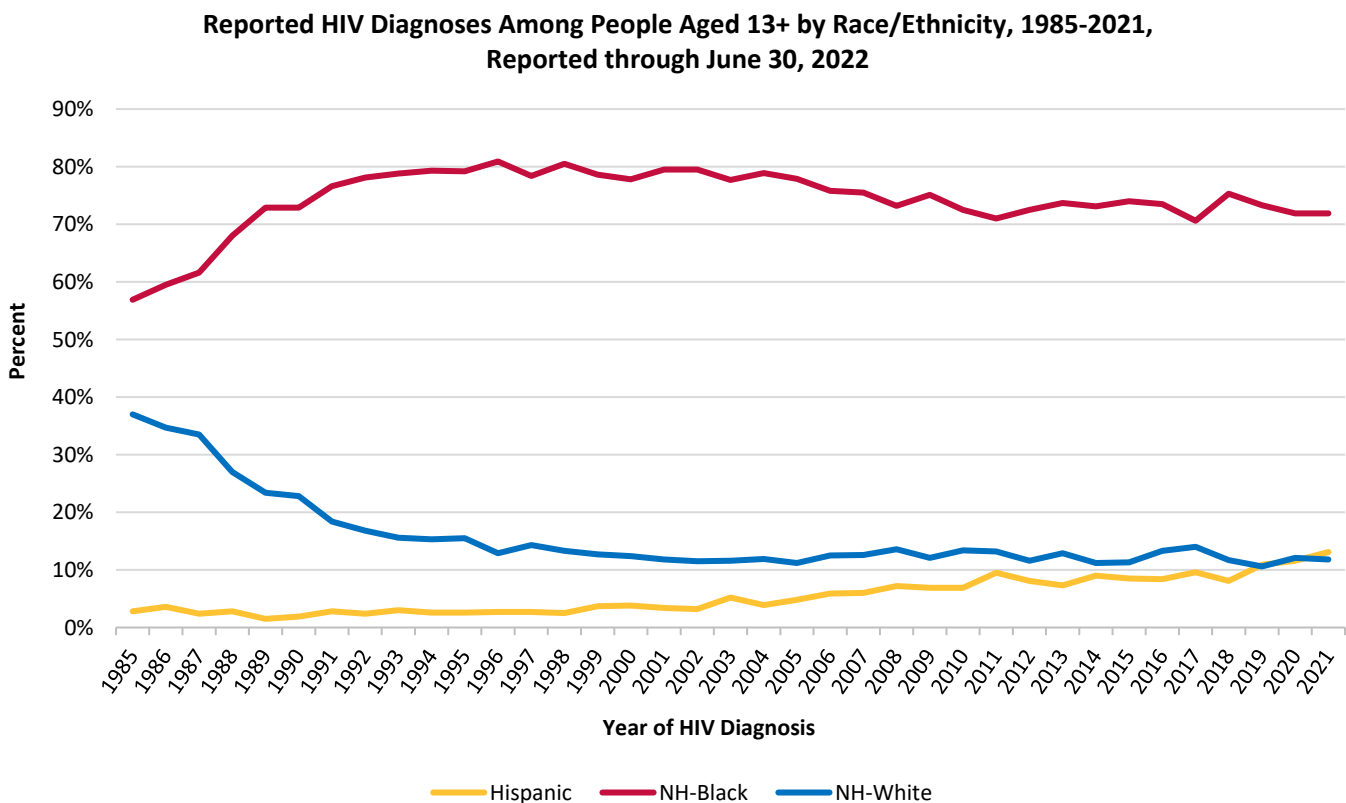
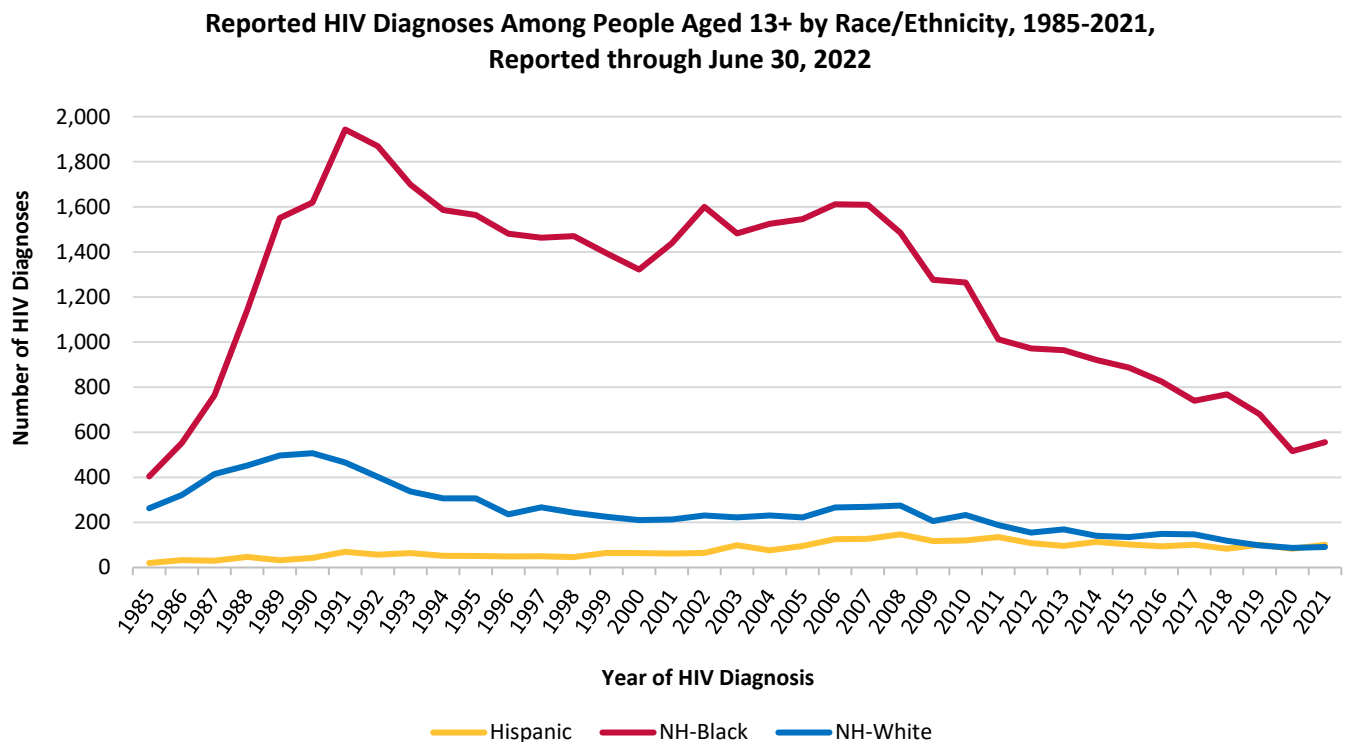
Rate by Sex at Birth of People Diagnosed with HIV, Aged 13+ at HIV Diagnosis, by Year of HIV Diagnosis from 2012 through 2021, as Reported through June 30, 2022



Year of HIV Diagnosis	Number of HIV Diagnoses		Sex at Birth	
			Female	Male
2012	1,341	Population	2,564,076	2,360,904
		Reported Diagnoses	367	974
		Rate	14.3	41.3
2013	1,308	Population	2,581,909	2,379,302
		Reported Diagnoses	369	939
		Rate	14.3	39.5
2014	1,260	Population	2,598,261	2,394,279
		Reported Diagnoses	363	897
		Rate	14	37.5
2015	1,198	Population	2,612,888	2,409,041
		Reported Diagnoses	323	875
		Rate	12.4	36.3
2016	1,122	Population	2,622,161	2,418,756
		Reported Diagnoses	313	809
		Rate	11.9	33.4
2017	1,048	Population	2,633,890	2,429,119
		Reported Diagnoses	293	755
		Rate	11.1	31.1
2018	1,020	Population	2,643,191	2,435,546
		Reported Diagnoses	282	738
		Rate	10.7	30.3
2019	928	Population	2,651,301	2,441,821
		Reported Diagnoses	267	661
		Rate	10.1	27.1
2020	718	Population	2,654,769	2,444,160
		Reported Diagnoses	182	536
		Rate	6.9	21.9
2021	773	Population	2,689,328	2,507,749
		Reported Diagnoses	195	578
		Rate	7.3	23.0

Figure 5 – Trends in Reported HIV Diagnoses, among Residents at Diagnosis Aged 13+, by Race/Ethnicity, 1985-2021, Reported through June 30, 2022

Number and Percent by Race/Ethnicity of People Diagnosed with HIV, Aged 13+ at HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2021, as Reported through June 30, 2022



NH: Non-Hispanic

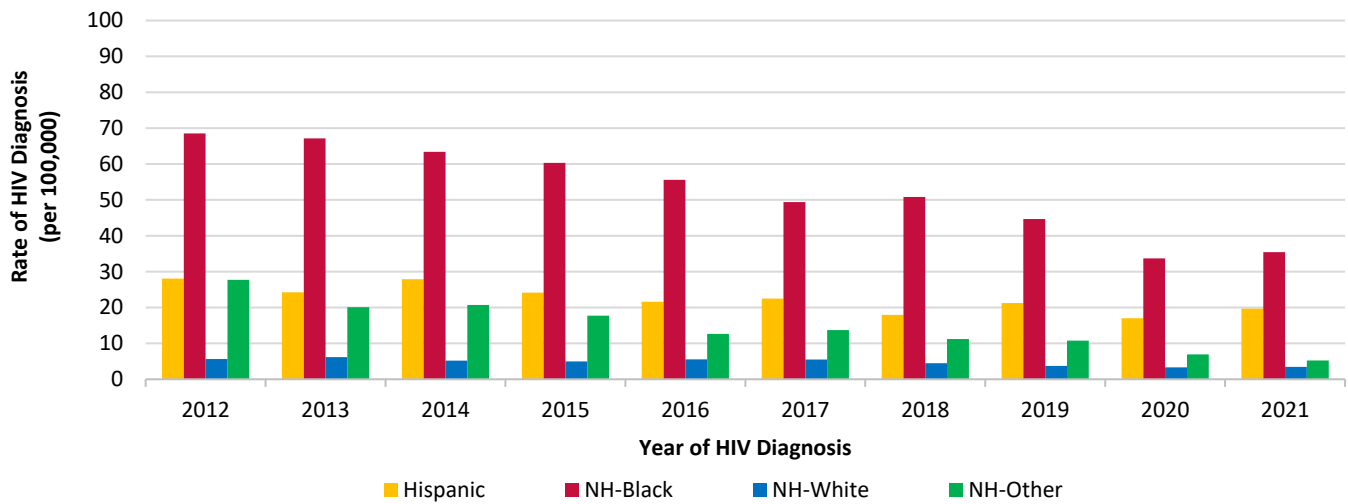
NH-Asian, NH-American Indian, NH-Native Hawaiian/Other Pacific Islander, NH-Multiracial/Other not shown

Reported HIV Diagnoses among People Aged 13+									
Year of HIV Diagnosis	No.	Race/Ethnicity							
		Hispanic		Non-Hispanic Black, only		Non-Hispanic White, only		Non-Hispanic Other Race	
		No.	%	No.	%	No.	%	No.	%
<1985	382	11	2.9%	215	56.3%	142	37.2%	14	3.7%
1985	710	20	2.8%	404	56.9%	263	37.0%	23	3.2%
1986	927	33	3.6%	552	59.5%	322	34.7%	20	2.2%
1987	1,240	30	2.4%	764	61.6%	415	33.5%	31	2.5%
1988	1,677	47	2.8%	1,141	68.0%	452	27.0%	37	2.2%
1989	2,126	32	1.5%	1,550	72.9%	497	23.4%	47	2.2%
1990	2,221	43	1.9%	1,619	72.9%	507	22.8%	52	2.3%
1991	2,536	70	2.8%	1,943	76.6%	466	18.4%	57	2.2%
1992	2,392	57	2.4%	1,869	78.1%	402	16.8%	64	2.7%
1993	2,155	64	3.0%	1,699	78.8%	337	15.6%	55	2.6%
1994	2,001	52	2.6%	1,586	79.3%	307	15.3%	56	2.8%
1995	1,975	51	2.6%	1,564	79.2%	307	15.5%	53	2.7%
1996	1,830	49	2.7%	1,481	80.9%	236	12.9%	64	3.5%
1997	1,867	50	2.7%	1,463	78.4%	267	14.3%	87	4.7%
1998	1,826	46	2.5%	1,470	80.5%	243	13.3%	67	3.7%
1999	1,774	65	3.7%	1,394	78.6%	225	12.7%	90	5.1%
2000	1,700	64	3.8%	1,322	77.8%	210	12.4%	104	6.1%
2001	1,808	62	3.4%	1,438	79.5%	213	11.8%	95	5.3%
2002	2,012	65	3.2%	1,600	79.5%	231	11.5%	116	5.8%
2003	1,907	99	5.2%	1,482	77.7%	222	11.6%	104	5.5%
2004	1,934	76	3.9%	1,525	78.9%	231	11.9%	102	5.3%
2005	1,983	95	4.8%	1,545	77.9%	222	11.2%	121	6.1%
2006	2,126	126	5.9%	1,611	75.8%	266	12.5%	123	5.8%
2007	2,131	127	6.0%	1,609	75.5%	269	12.6%	126	5.9%
2008	2,029	147	7.2%	1,485	73.2%	275	13.6%	122	6.0%
2009	1,698	117	6.9%	1,276	75.1%	206	12.1%	99	5.8%
2010	1,743	120	6.9%	1,264	72.5%	233	13.4%	126	7.2%
2011	1,425	135	9.5%	1,012	71.0%	188	13.2%	90	6.3%
2012	1,341	108	8.1%	972	72.5%	155	11.6%	106	7.9%
2013	1,308	96	7.3%	964	73.7%	169	12.9%	79	6.0%
2014	1,260	114	9.0%	921	73.1%	141	11.2%	84	6.7%
2015	1,198	102	8.5%	887	74.0%	135	11.3%	74	6.2%
2016	1,122	94	8.4%	825	73.5%	149	13.3%	54	4.8%
2017	1,048	101	9.6%	740	70.6%	147	14.0%	60	5.7%
2018	1,020	83	8.1%	768	75.3%	119	11.7%	50	4.9%
2019	928	101	10.9%	680	73.3%	98	10.6%	49	5.3%
2020	718	83	11.6%	516	71.9%	87	12.1%	32	4.5%
2021	773	101	13.1%	556	71.9%	91	11.8%	25	3.2%
Total	60,851	2,936	4.8%	45,712	75.1%	9,445	15.5%	2,758	4.5%

Data for 2020 and 2021 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing and care-related services.

Figure 5A – Trends in Rates of Reported HIV Diagnoses, among Residents at Diagnosis Aged 13+, by Race/Ethnicity, 2012-2021, Reported through June 30, 2022

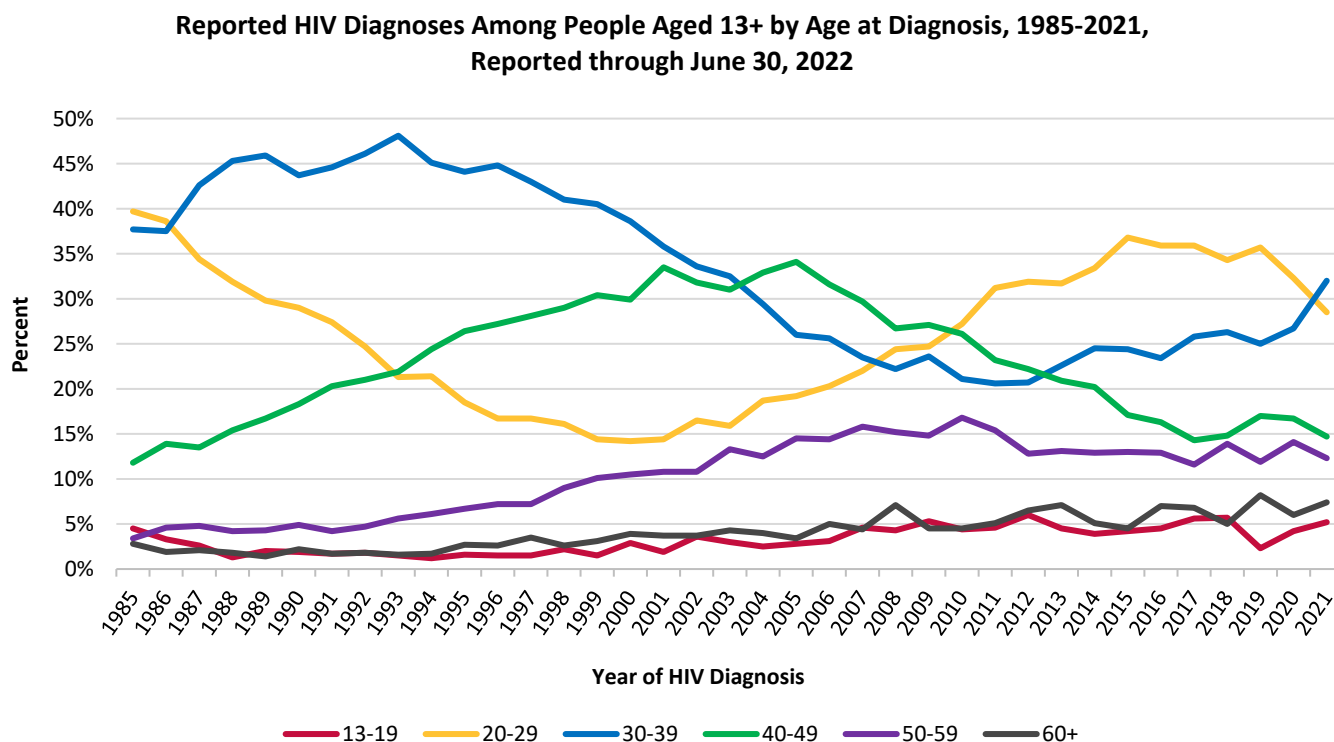
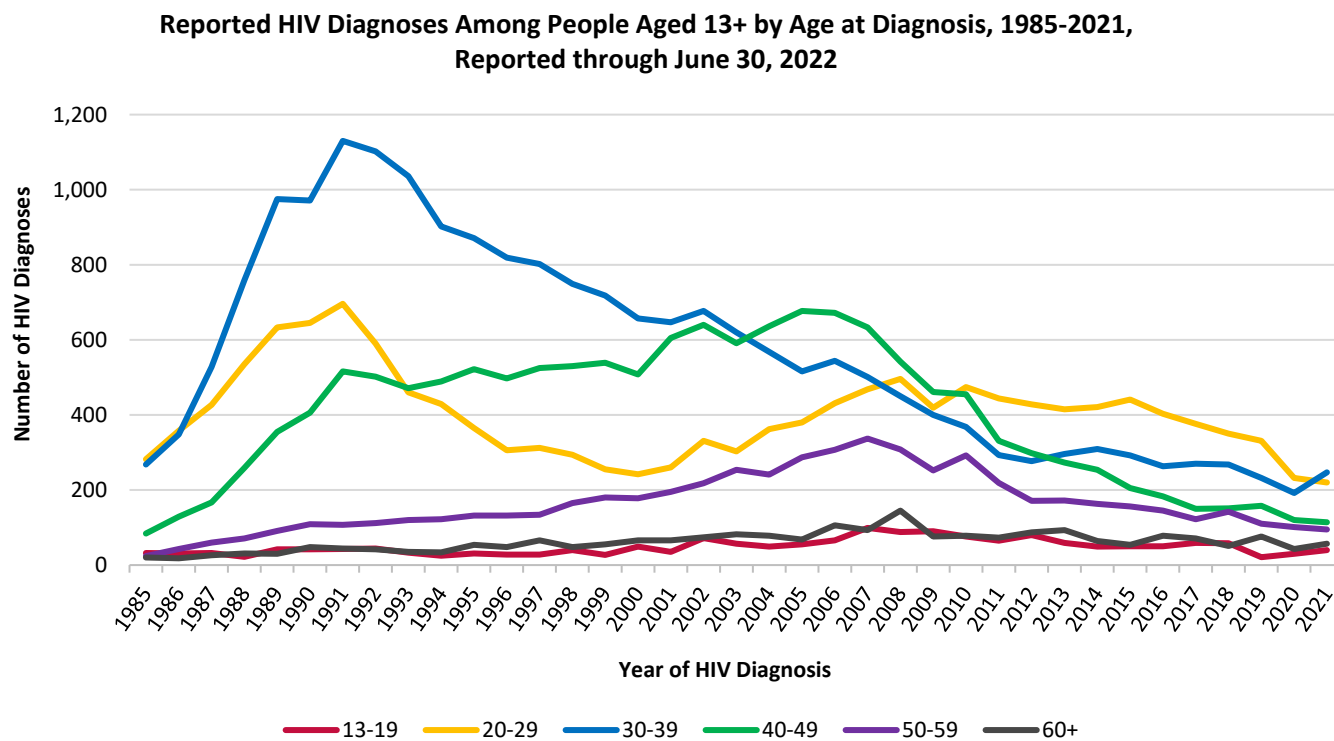
Rate by Race/Ethnicity of People Diagnosed with HIV, Aged 13+ at HIV Diagnosis, by Year of HIV Diagnosis from 2012 through 2021, as Reported through June 30, 2022



Year of HIV Diagnosis	Number of HIV Diagnoses		Race/Ethnicity			
			Hispanic	Non-Hispanic Black	Non-Hispanic White	Non-Hispanic Other Race
2012	1,341	Population	384,868	1,418,349	2,739,366	382,396
		Reported Diagnoses	108	972	155	106
		Rate	28.1	68.5	5.7	27.7
2013	1,308	Population	396,380	1,435,641	2,735,584	393,606
		Reported Diagnoses	96	964	169	79
		Rate	24.2	67.1	6.2	20.1
2014	1,260	Population	408,930	1,453,048	2,725,445	405,117
		Reported Diagnoses	114	921	141	84
		Rate	27.9	63.4	5.2	20.7
2015	1,198	Population	422,337	1,470,497	2,711,626	417,470
		Reported Diagnoses	102	887	135	74
		Rate	24.2	60.3	5.0	17.7
2016	1,122	Population	435,049	1,484,080	2,694,390	427,398
		Reported Diagnoses	94	825	149	54
		Rate	21.6	55.6	5.5	12.6
2017	1,048	Population	448,948	1,498,932	2,676,865	438,264
		Reported Diagnoses	101	740	147	60
		Rate	22.5	49.4	5.5	13.7
2018	1,020	Population	463,031	1,511,026	2,658,661	446,020
		Reported Diagnoses	83	768	119	50
		Rate	17.9	50.8	4.5	11.2
2019	928	Population	475,671	1,523,333	2,639,640	454,478
		Reported Diagnoses	101	680	98	49
		Rate	21.2	44.6	3.7	10.8
2020	718	Population	488,360	1,531,914	2,617,024	461,631
		Reported Diagnoses	83	516	87	32
		Rate	17.0	33.7	3.3	6.9
2021	773	Population	512,844	1,568,579	2,637,875	477,780
		Reported Diagnoses	101	556	91	25
		Rate	19.7	35.4	3.4	5.2

Figure 6 – Trends in Reported HIV Diagnoses, among Residents at Diagnosis Aged 13+, by Age at HIV Diagnosis, 1985-2021, Reported through June 30, 2022

Number and Percent by Age at HIV Diagnosis of People Diagnosed with HIV, Aged 13+ at HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2021, as Reported through June 30, 2022

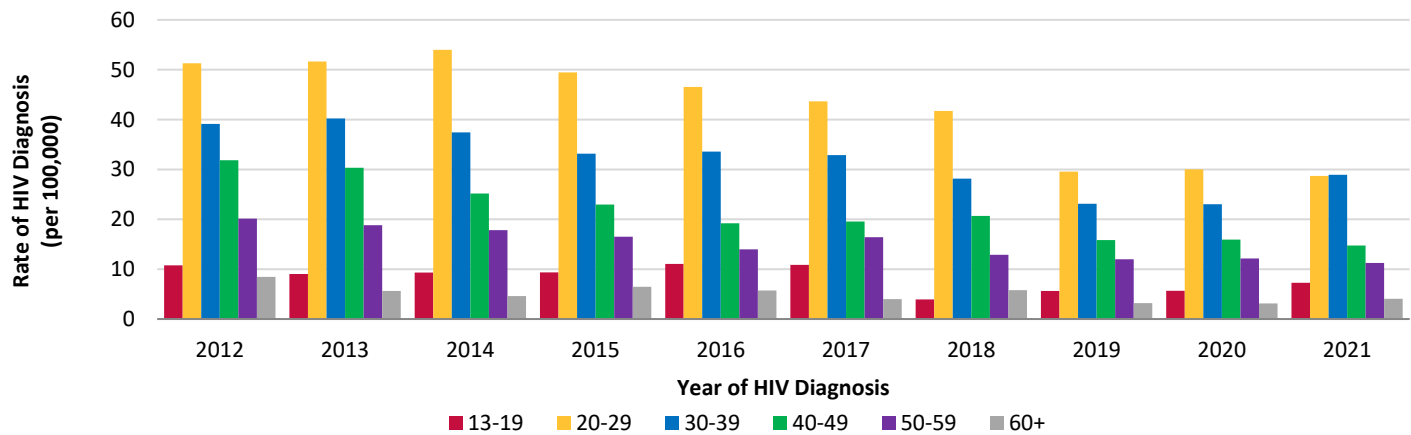


Reported HIV Diagnoses among People Aged 13+													
Year of HIV Diagnosis	No.	Age at HIV Diagnosis											
		13-19		20-29		30-39		40-49		50-59		60+	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
<1985	382	33	8.6%	158	41.4%	114	29.8%	54	14.1%	19	5.0%	4	1.0%
1985	710	32	4.5%	282	39.7%	268	37.7%	84	11.8%	24	3.4%	20	2.8%
1986	927	31	3.3%	358	38.6%	348	37.5%	129	13.9%	43	4.6%	18	1.9%
1987	1,240	32	2.6%	427	34.4%	528	42.6%	167	13.5%	60	4.8%	26	2.1%
1988	1,677	22	1.3%	535	31.9%	759	45.3%	259	15.4%	71	4.2%	31	1.8%
1989	2,126	42	2.0%	633	29.8%	975	45.9%	355	16.7%	91	4.3%	30	1.4%
1990	2,221	42	1.9%	645	29.0%	971	43.7%	406	18.3%	109	4.9%	48	2.2%
1991	2,536	43	1.7%	696	27.4%	1,130	44.6%	516	20.3%	107	4.2%	44	1.7%
1992	2,392	44	1.8%	590	24.7%	1,102	46.1%	502	21.0%	112	4.7%	42	1.8%
1993	2,155	33	1.5%	460	21.3%	1,036	48.1%	471	21.9%	120	5.6%	35	1.6%
1994	2,001	25	1.2%	429	21.4%	902	45.1%	489	24.4%	122	6.1%	34	1.7%
1995	1,975	31	1.6%	365	18.5%	871	44.1%	522	26.4%	132	6.7%	54	2.7%
1996	1,830	28	1.5%	306	16.7%	819	44.8%	497	27.2%	132	7.2%	48	2.6%
1997	1,867	28	1.5%	312	16.7%	802	43.0%	525	28.1%	134	7.2%	66	3.5%
1998	1,826	40	2.2%	294	16.1%	749	41.0%	530	29.0%	165	9.0%	48	2.6%
1999	1,774	27	1.5%	255	14.4%	718	40.5%	539	30.4%	180	10.1%	55	3.1%
2000	1,700	49	2.9%	242	14.2%	657	38.6%	508	29.9%	178	10.5%	66	3.9%
2001	1,808	35	1.9%	260	14.4%	647	35.8%	605	33.5%	195	10.8%	66	3.7%
2002	2,012	72	3.6%	331	16.5%	677	33.6%	640	31.8%	218	10.8%	74	3.7%
2003	1,907	57	3.0%	303	15.9%	620	32.5%	591	31.0%	254	13.3%	82	4.3%
2004	1,934	49	2.5%	362	18.7%	568	29.4%	636	32.9%	241	12.5%	78	4.0%
2005	1,983	55	2.8%	380	19.2%	516	26.0%	677	34.1%	287	14.5%	68	3.4%
2006	2,126	66	3.1%	431	20.3%	544	25.6%	672	31.6%	307	14.4%	106	5.0%
2007	2,131	99	4.6%	468	22.0%	501	23.5%	633	29.7%	337	15.8%	93	4.4%
2008	2,029	88	4.3%	496	24.4%	450	22.2%	542	26.7%	308	15.2%	145	7.1%
2009	1,698	90	5.3%	419	24.7%	400	23.6%	461	27.1%	252	14.8%	76	4.5%
2010	1,743	76	4.4%	474	27.2%	368	21.1%	455	26.1%	292	16.8%	78	4.5%
2011	1,425	65	4.6%	444	31.2%	293	20.6%	331	23.2%	219	15.4%	73	5.1%
2012	1,341	80	6.0%	428	31.9%	277	20.7%	298	22.2%	171	12.8%	87	6.5%
2013	1,308	59	4.5%	415	31.7%	296	22.6%	273	20.9%	172	13.1%	93	7.1%
2014	1,260	49	3.9%	421	33.4%	309	24.5%	254	20.2%	163	12.9%	64	5.1%
2015	1,198	50	4.2%	441	36.8%	292	24.4%	205	17.1%	156	13.0%	54	4.5%
2016	1,122	50	4.5%	403	35.9%	263	23.4%	183	16.3%	145	12.9%	78	7.0%
2017	1,048	59	5.6%	376	35.9%	270	25.8%	150	14.3%	122	11.6%	71	6.8%
2018	1,020	58	5.7%	350	34.3%	268	26.3%	151	14.8%	142	13.9%	51	5.0%
2019	928	21	2.3%	331	35.7%	232	25.0%	158	17.0%	110	11.9%	76	8.2%
2020	718	30	4.2%	232	32.3%	192	26.7%	120	16.7%	101	14.1%	43	6.0%
2021	773	40	5.2%	220	28.5%	247	32.0%	114	14.7%	95	12.3%	57	7.4%
Total	60,851	1,830	3.0%	14,972	24.6%	20,979	34.5%	14,702	24.2%	6,086	10.0%	2,282	3.8%

Data for 2020 and 2021 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing and care-related services.

Figure 6A – Trends in Rates of Reported HIV Diagnoses, among Residents at Diagnosis Aged 13+, by Age at HIV Diagnosis, 2012-2021, Reported through June 30, 2022

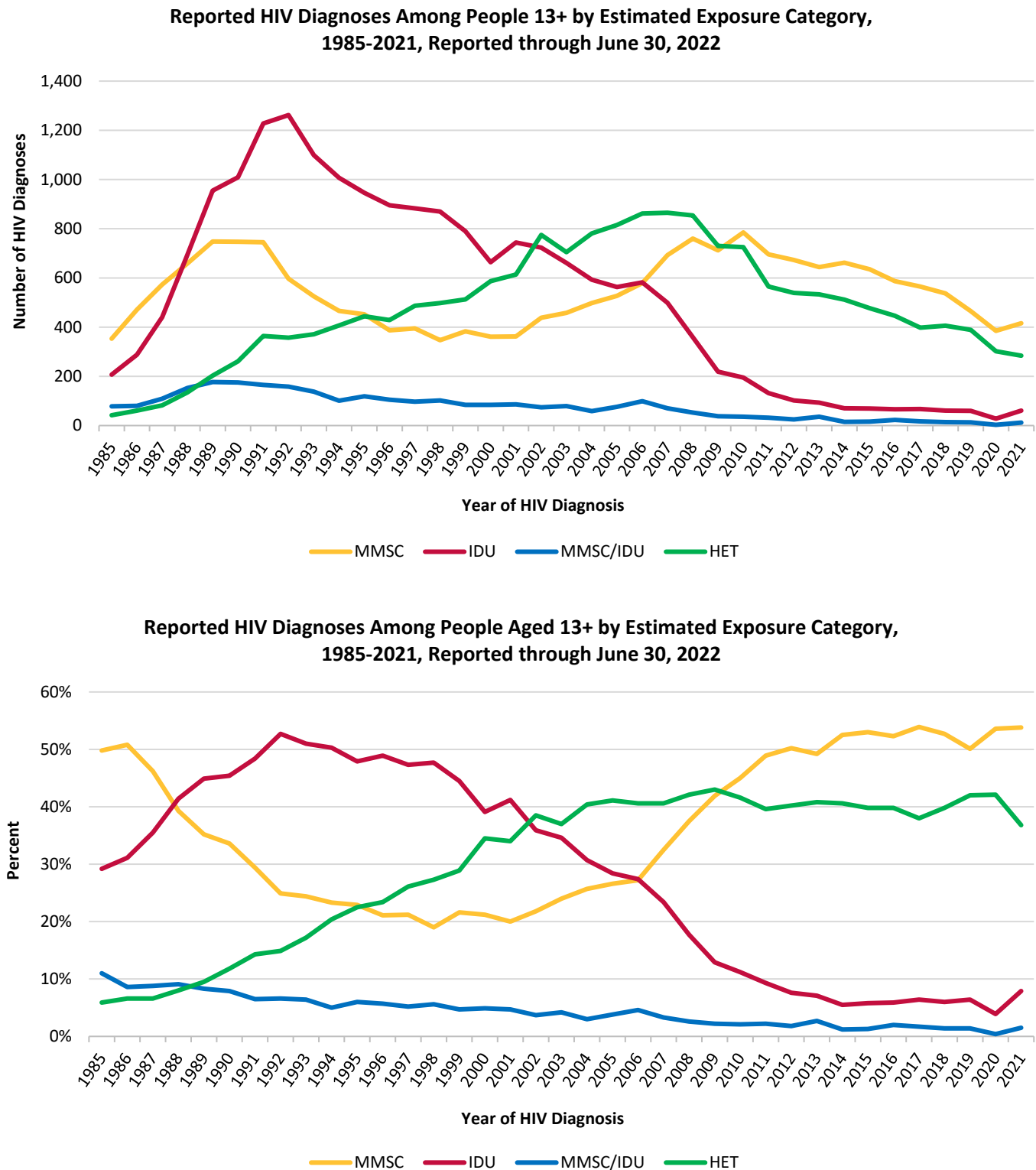
Rate by Age at HIV Diagnosis of People Diagnosed with HIV, Aged 13+ at HIV Diagnosis, by Year of HIV Diagnosis from 2012 through 2021, as Reported through June 30, 2022



Year of HIV Diagnosis	Number of HIV Diagnoses	Mean Age at HIV Diagnosis		Age at HIV Diagnosis					
				13-19	20-29	30-39	40-49	50-59	60+
2012	1,341	36.9	Population	547,915	809,056	756,584	856,658	854,566	1,100,201
			Reported Diagnoses	59	415	296	273	172	93
			Rate	10.8	51.3	39.1	31.9	20.1	8.5
2013	1,308	37.5	Population	541,500	814,847	768,312	837,069	865,573	1,133,910
			Reported Diagnoses	49	421	309	254	163	64
			Rate	9.0	51.7	40.2	30.3	18.8	5.6
2014	1,260	36.6	Population	537,142	816,944	780,326	814,074	874,523	1,169,531
			Reported Diagnoses	50	441	292	205	156	54
			Rate	9.3	54.0	37.4	25.2	17.8	4.6
2015	1,198	35.8	Population	534,944	814,501	793,252	796,477	877,522	1,205,233
			Reported Diagnoses	50	403	263	183	145	78
			Rate	9.3	49.5	33.2	23.0	16.5	6.5
2016	1,122	36.4	Population	534,093	807,509	804,218	781,347	873,547	1,240,203
			Reported Diagnoses	59	376	270	150	122	71
			Rate	11.0	46.6	33.6	19.2	14.0	5.7
2017	1,048	35.8	Population	533,423	801,338	815,174	771,858	865,054	1,276,162
			Reported Diagnoses	58	350	268	151	142	51
			Rate	10.9	43.7	32.9	19.6	16.4	4.0
2018	1,020	36.0	Population	532,757	792,899	823,588	763,396	854,227	1,311,871
			Reported Diagnoses	21	331	232	158	110	76
			Rate	3.9	41.7	28.2	20.7	12.9	5.8
2019	928	37.1	Population	531,748	784,733	829,866	757,393	842,069	1,347,313
			Reported Diagnoses	30	232	192	120	101	43
			Rate	5.6	29.6	23.1	15.8	12.0	3.2
2020	718	36.8	Population	528,662	773,005	833,899	753,555	830,791	1,379,017
			Reported Diagnoses	30	232	192	120	101	43
			Rate	5.7	30.0	23.0	15.9	12.2	3.1
2021	773	36.9	Population	551,180	766,523	853,423	772,992	844,356	1,408,604
			Reported Diagnoses	40	220	247	114	95	57
			Rate	7.3	28.7	28.9	14.7	11.3	4.0

Figure 7 – Trends in Reported HIV Diagnoses, among Residents at Diagnosis Aged 13+, by Estimated Exposure Category, 1985-2021, Reported through June 30, 2022

Number and Percent by Estimated Exposure Category[§] of People Diagnosed with HIV, Aged 13+ at HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2021, as Reported through June 30, 2022



Other exposure category not shown.

§ Multiple imputation was used to estimate and adjust for missing exposure category.

Year of HIV Diagnosis	Reported HIV Diagnoses among People Aged 13+											
	No.	% with No Reported Exposure [§]	Estimated Exposure Category [§]									
			MMSC		IDU		MMSC/IDU		HET		Other Exposure	
			No.	%	No.	%	No.	%	No.	%	No.	%
<1985	382	5.2%	224	58.7%	86	22.5%	39	10.1%	19	5.1%	14	3.7%
1985	710	4.9%	353	49.8%	207	29.2%	78	11.0%	42	5.9%	30	4.2%
1986	927	3.0%	471	50.8%	288	31.1%	80	8.6%	61	6.6%	27	2.9%
1987	1,240	3.1%	573	46.2%	440	35.5%	109	8.8%	82	6.6%	36	2.9%
1988	1,677	3.8%	659	39.3%	695	41.4%	153	9.1%	135	8.0%	35	2.1%
1989	2,126	3.5%	748	35.2%	955	44.9%	177	8.3%	203	9.5%	43	2.0%
1990	2,221	4.1%	747	33.6%	1,009	45.4%	175	7.9%	261	11.8%	29	1.3%
1991	2,536	4.7%	745	29.4%	1,228	48.4%	165	6.5%	364	14.3%	35	1.4%
1992	2,392	6.0%	597	24.9%	1,262	52.7%	158	6.6%	357	14.9%	19	0.8%
1993	2,155	4.3%	525	24.4%	1,099	51.0%	138	6.4%	371	17.2%	21	1.0%
1994	2,001	5.2%	466	23.3%	1,007	50.3%	101	5.0%	407	20.4%	20	1.0%
1995	1,975	6.2%	452	22.9%	946	47.9%	119	6.0%	444	22.5%	14	0.7%
1996	1,830	7.0%	387	21.1%	895	48.9%	105	5.7%	429	23.4%	14	0.8%
1997	1,867	8.4%	395	21.2%	883	47.3%	97	5.2%	487	26.1%	5	0.3%
1998	1,826	8.5%	347	19.0%	870	47.7%	102	5.6%	498	27.3%	9	0.5%
1999	1,774	9.2%	383	21.6%	790	44.5%	84	4.7%	513	28.9%	5	0.3%
2000	1,700	9.7%	361	21.2%	664	39.1%	84	4.9%	587	34.5%	4	0.2%
2001	1,808	9.8%	362	20.0%	744	41.2%	86	4.7%	614	34.0%	2	0.1%
2002	2,012	11.1%	438	21.8%	723	35.9%	74	3.7%	775	38.5%	2	0.1%
2003	1,907	10.3%	458	24.0%	661	34.6%	79	4.2%	705	37.0%	4	0.2%
2004	1,934	13.3%	498	25.7%	593	30.7%	59	3.0%	781	40.4%	3	0.2%
2005	1,983	16.7%	527	26.6%	563	28.4%	76	3.8%	815	41.1%	2	0.1%
2006	2,126	21.1%	579	27.2%	582	27.4%	99	4.6%	862	40.6%	4	0.2%
2007	2,131	24.0%	693	32.5%	499	23.4%	70	3.3%	865	40.6%	4	0.2%
2008	2,029	30.8%	760	37.5%	359	17.7%	53	2.6%	854	42.1%	3	0.1%
2009	1,698	31.2%	712	41.9%	219	12.9%	38	2.2%	730	43.0%	0	0.0%
2010	1,743	32.9%	785	45.0%	195	11.2%	36	2.1%	725	41.6%	2	0.1%
2011	1,425	30.2%	696	48.9%	132	9.3%	32	2.2%	565	39.6%	0	0.0%
2012	1,341	20.1%	673	50.2%	102	7.6%	25	1.8%	539	40.2%	2	0.1%
2013	1,308	15.8%	644	49.2%	93	7.1%	36	2.7%	533	40.8%	2	0.2%
2014	1,260	14.4%	662	52.5%	70	5.5%	15	1.2%	512	40.6%	1	0.1%
2015	1,198	9.3%	635	53.0%	69	5.8%	16	1.3%	477	39.8%	1	0.1%
2016	1,122	14.3%	587	52.3%	66	5.9%	23	2.0%	446	39.8%	1	0.1%
2017	1,048	13.9%	565	53.9%	67	6.4%	17	1.7%	398	38.0%	1	0.1%
2018	1,020	13.4%	537	52.7%	61	6.0%	14	1.4%	406	39.8%	2	0.2%
2019	928	17.9%	465	50.1%	60	6.4%	13	1.4%	389	42.0%	1	0.1%
2020	718	12.3%	385	53.6%	28	3.9%	3	0.4%	302	42.1%	0	0.0%
2021	773	43.1%	416	53.8%	61	7.9%	12	1.5%	284	36.8%	0	0.0%
Total	60,851	12.8%	20,510	33.7%	19,271	31.7%	2,840	4.7%	17,837	29.3%	397	0.7%

§ Multiple imputation was used to estimate and adjust for missing transmission category.

[§]Percent with no reported exposure prior to multiple imputation adjustment.

Note. Discrepancies in the table between total HIV diagnoses and the sums by exposure category are due to less than 1 percent of people missing transmission category after multiple imputation.

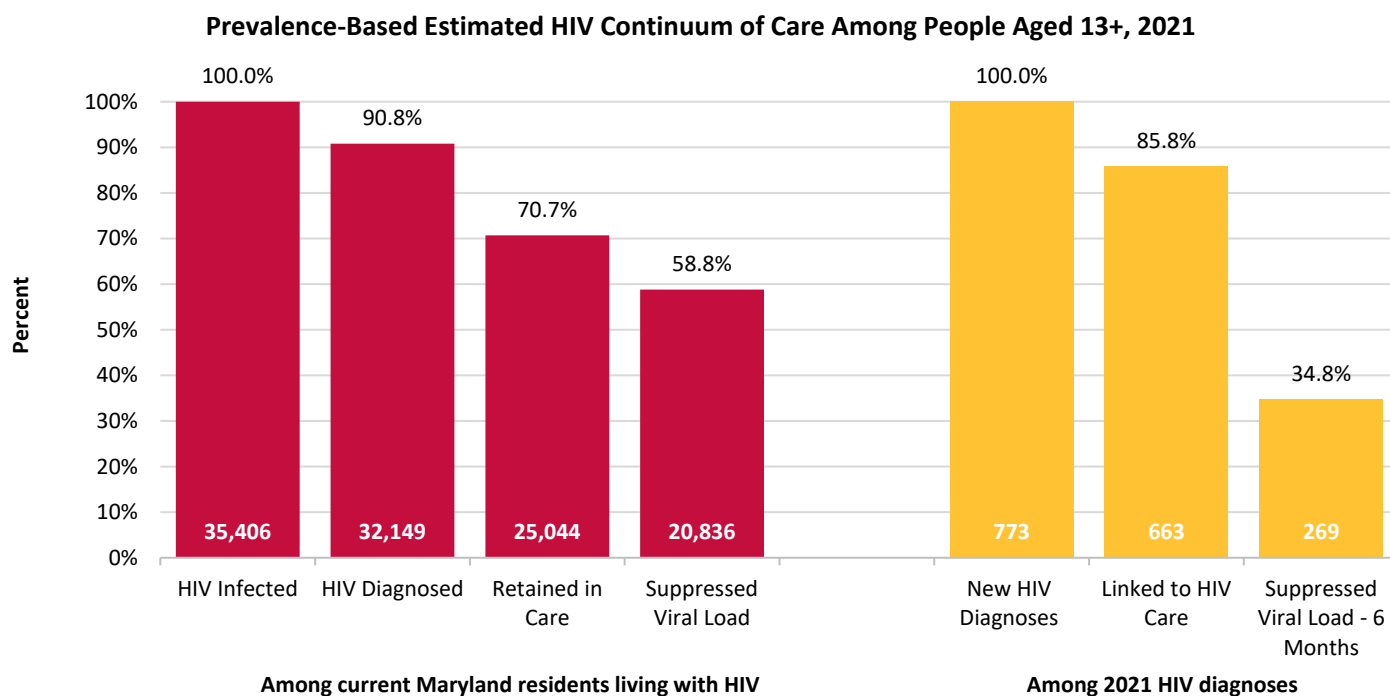
Data for 2020 and 2021 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing and care-related services.

Section III – Continuum of Care Cascades

In their 2011 article in Clinical Infectious Diseases, Gardner et al.¹ utilize a continuum of care “cascade” to illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care.

Figure 8 – Prevalence-Based Estimated 2021 HIV Continuum of Care Cascades, among Current Maryland Residents Aged 13+, Reported through June 30, 2022

The prevalence-based Maryland Engagement in HIV Care Cascades (below) apply the CDC CD4 depletion model to Maryland surveillance data, reported through June 30, 2022, to estimate the number of people living with undiagnosed HIV (9.2%) and the estimated number of people living with HIV currently residing in Maryland. Maryland surveillance data is then used to describe the number and percentage of persons living with HIV in Maryland on December 31, 2021 and the number and percentage of new HIV diagnoses in 2021 who belong to each of the stages of engagement in HIV care.

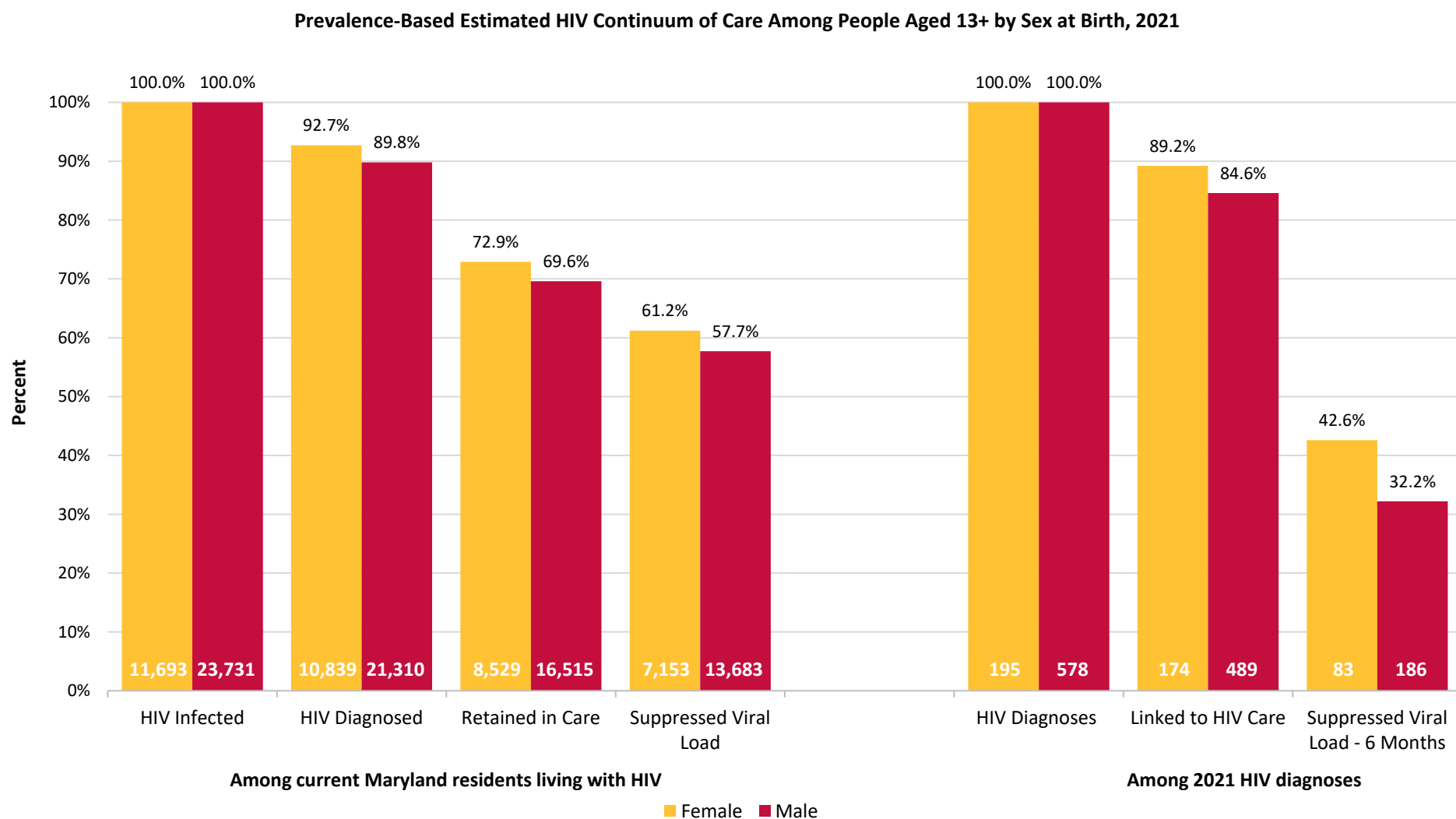


Continuum of Care Stage	People Aged 13+ Living with HIV		Continuum of Care Stage	Reported 2021 HIV Diagnoses	
	Number	Percent		Number	Percent
HIV Infected	35,406	100.0%	New HIV Diagnoses	773	100.0%
HIV Diagnosed	32,149	90.8%	Linked to HIV Care	663	85.8%
Retained in HIV Care	25,044	70.7%	Suppressed Viral Load – 6 Months	269	34.8%
Suppressed Viral Load	20,836	58.8%			

Data for 2020 and 2021 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing and care-related services.

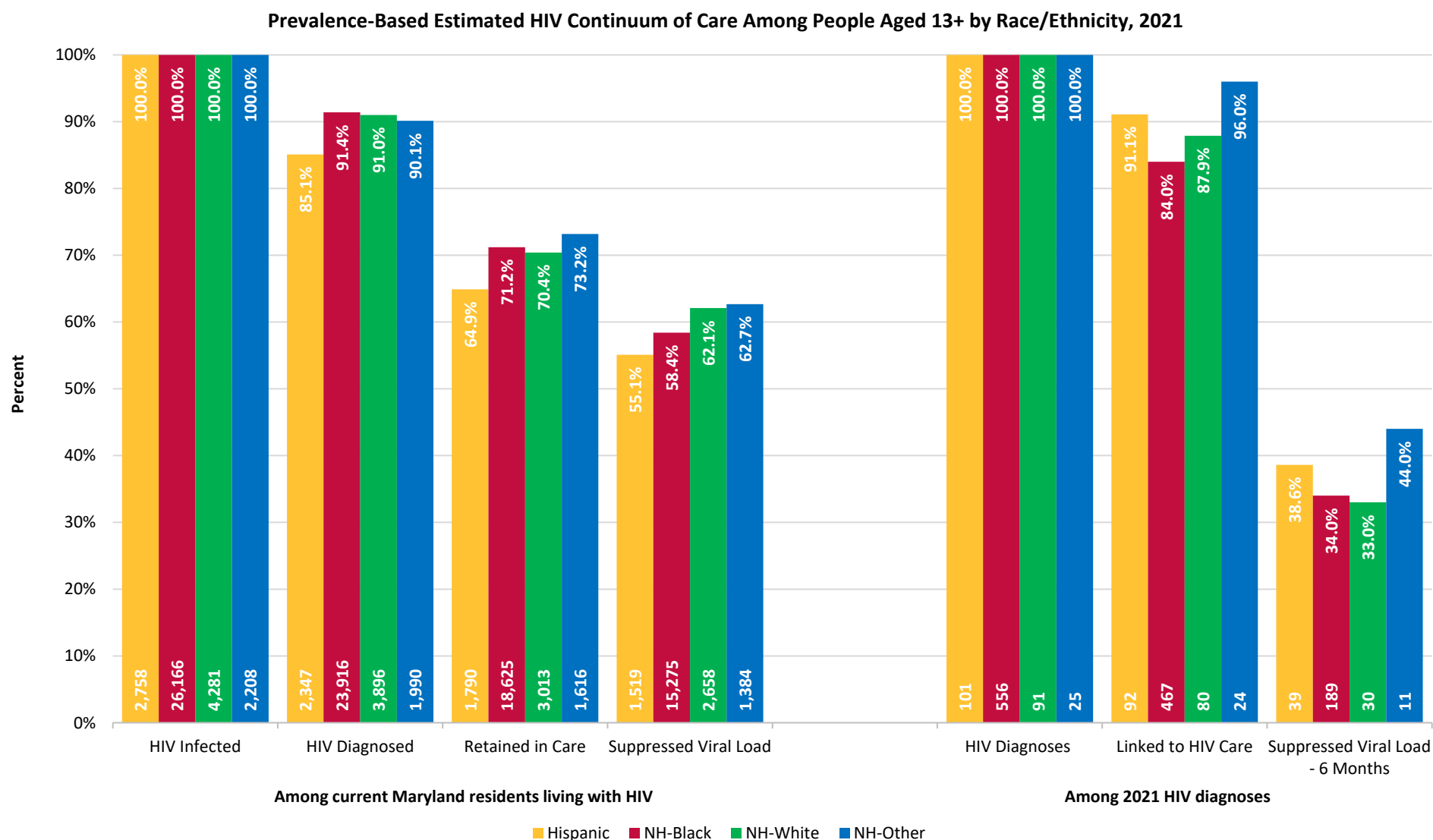
¹ Gardner et al, “The Spectrum of Engagement in HIV Care and its Relevance to Test-and-Treat Strategies for Prevention of HIV Infection.” Clin Infect Dis. 2011; 52 (6): 793-800.

Figure 8A – Prevalence-Based Estimated 2021 HIV Continuum of Care Cascades, among Current Maryland Residents Aged 13+, by Sex at Birth, Reported through June 30, 2022



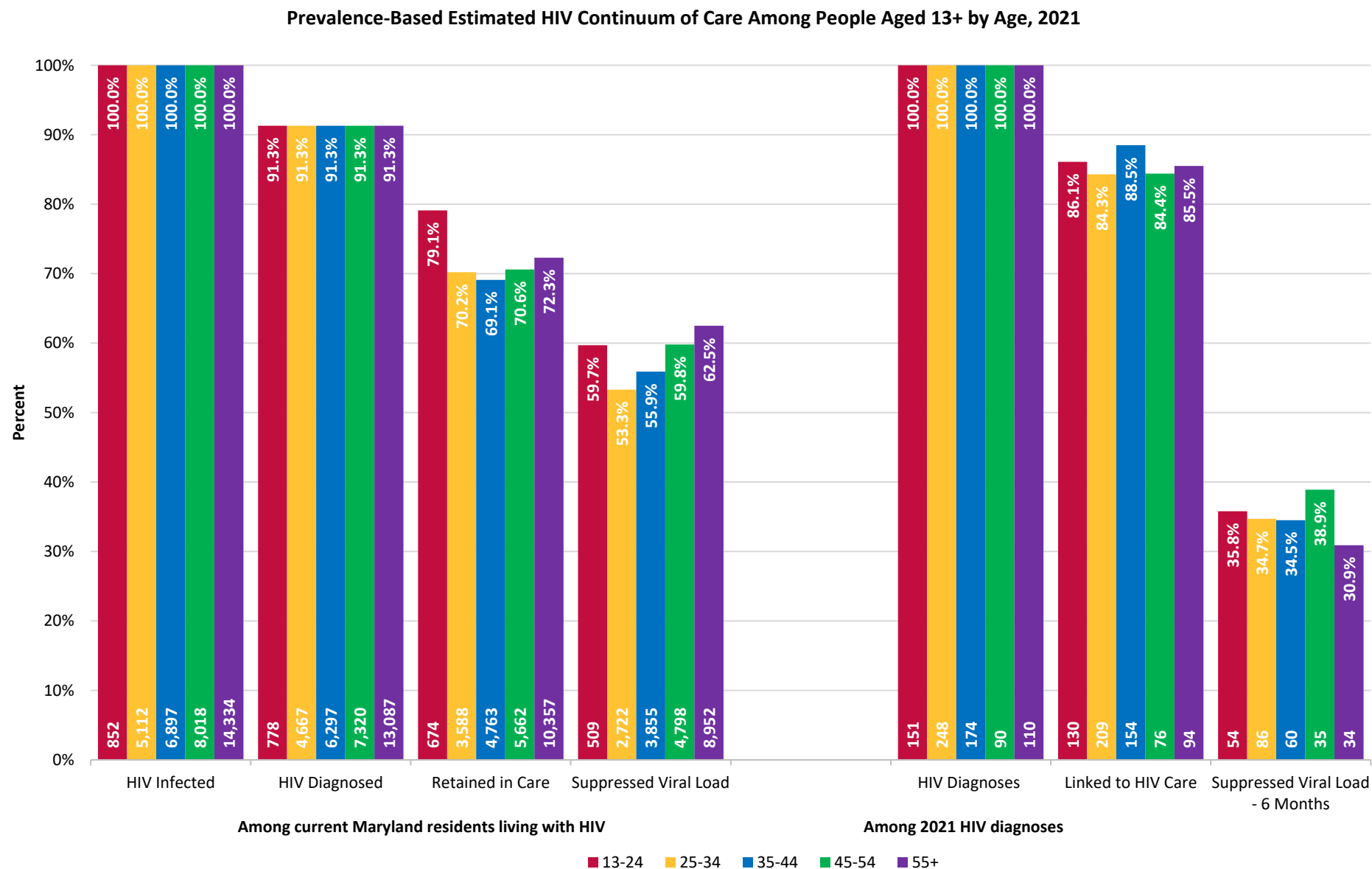
Data for 2020 and 2021 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing and care-related services.

Figure 8B – Prevalence-Based Estimated 2021 HIV Continuum of Care Cascades, among Current Maryland Residents Aged 13+, by Race/Ethnicity, Reported through June 30, 2022



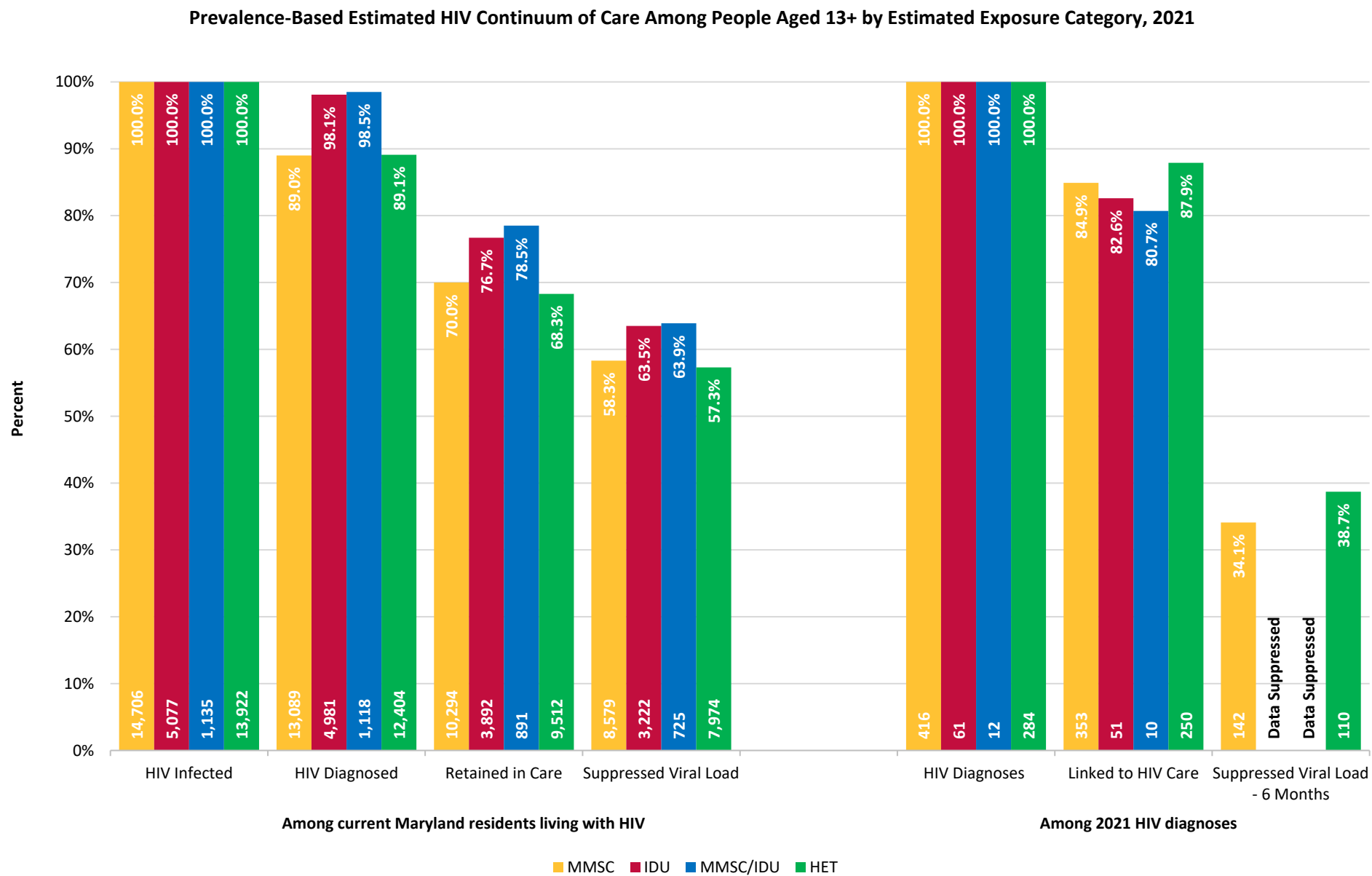
Data for 2020 and 2021 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing and care-related services.

Figure 8C – Prevalence-Based Estimated 2021 HIV Continuum of Care Cascades, among Current Maryland Residents Aged 13+, by Age on December 31, 2021, Reported through June 30, 2022



Note. Age groups are consistent with the national standard presentation of the HIV continuum of care by age. A diagnosis-based continuum of care broken down by 10-year age groups is available on MDH HIV by Age Data Sheet. Age on December 31, 2021 was used for current Maryland residents. Age at HIV diagnosis was used for newly reported HIV diagnosis during the specified year. Data for 2020 and 2021 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing and care-related services.

Figure 8D – Prevalence-Based Estimated 2021 HIV Continuum of Care Cascades, among Current Maryland Residents Aged 13+, by Estimated Exposure Category, Reported through June 30, 2022



Data for 2020 and 2021 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing and care-related services.

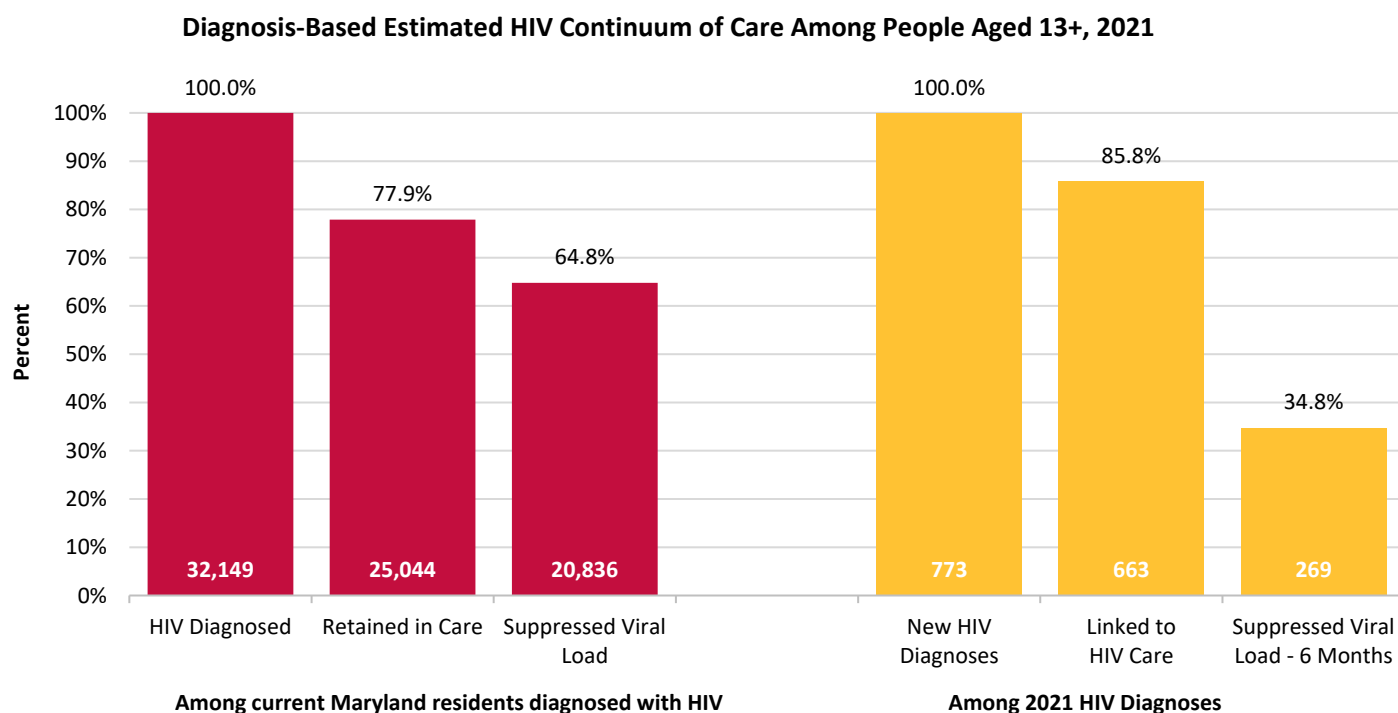
Demographic	Continuum of Care Stage													
	People Aged 13+ Living with Diagnosed HIV								Reported 2021 Diagnoses among People Aged 13+					
	HIV Infected		HIV Diagnosed		Retained in Care		Suppressed Viral Load		HIV Diagnosed		Linked to HIV Care		Suppressed Viral Load – 6 Months	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Sex at Birth														
Female	11,693	100.0%	10,839	92.7%	8,529	72.9%	7,153	61.2%	195	100.0%	174	89.2%	83	42.6%
Male	23,731	100.0%	21,310	89.8%	16,515	69.6%	13,683	57.7%	578	100.0%	489	84.6%	186	32.2%
Age on December 31, 2021														
13-24	852	100.0%	778	91.3%	674	79.1%	509	59.7%	151	100.0%	130	86.1%	54	35.8%
25-34	5,112	100.0%	4,667	91.3%	3,588	70.2%	2,722	53.3%	248	100.0%	209	84.3%	86	34.7%
35-44	6,897	100.0%	6,297	91.3%	4,763	69.1%	3,855	55.9%	174	100.0%	154	88.5%	60	34.5%
45-54	8,018	100.0%	7,320	91.3%	5,662	70.6%	4,798	59.8%	90	100.0%	76	84.4%	35	38.9%
55+	14,334	100.0%	13,087	91.3%	10,357	72.3%	8,952	62.5%	110	100.0%	94	85.5%	34	30.9%
Race/Ethnicity														
American Indian/Alaska Native	20	100.0%	19	97.3%	11	56.3%	9	46.1%	0	0.0%	0	0.0%	0	0.0%
Asian	299	100.0%	257	85.9%	189	63.2%	176	58.8%	10	100.0%	***	***	***	***
Black/African American	26,166	100.0%	23,916	91.4%	18,625	71.2%	15,275	58.4%	556	100.0%	467	84.0%	189	34.0%
Hispanic/Latino	2,758	100.0%	2,347	85.1%	1,790	64.9%	1,519	55.1%	101	100.0%	92	91.1%	39	38.6%
Native Hawaiian/Other Pacific Islander	4	100.0%	4	96.1%	3	72.1%	3	72.1%	1	100.0%	***	***	***	***
White	4,281	100.0%	3,896	91.0%	3,013	70.4%	2,658	62.1%	91	100.0%	80	87.9%	30	33.0%
Multiple races	1,885	100.0%	1,710	90.7%	1,413	74.9%	1,196	63.4%	14	100.0%	14	100.0%	7	50.0%
Exposure Category														
Male-to-male sexual contact (MMSC)	14,706	100.0%	13,089	89.0%	10,294	70.0%	8,579	58.3%	416	100.0%	353	84.9%	142	34.1%
Injection drug use (IDU)	5,077	100.0%	4,981	98.1%	3,892	76.7%	3,222	63.5%	61	100.0%	51	82.6%	***	***
Female	2,137	100.0%	2,104	98.5%	1,693	79.3%	1,395	65.3%	21	100.0%	17	83.3%	6	27.8%
Male	2,941	100.0%	2,876	97.8%	2,198	74.8%	1,827	62.1%	41	100.0%	33	82.2%	10	24.4%
MMSC/IDU	1,135	100.0%	1,118	98.5%	891	78.5%	725	63.9%	12	100.0%	10	80.7%	***	***
Heterosexual contact (HET)	13,922	100.0%	12,404	89.1%	9,512	68.3%	7,974	57.3%	284	100.0%	250	87.9%	110	38.7%
Female	9,232	100.0%	8,428	91.3%	6,582	71.3%	5,574	60.4%	174	100.0%	157	89.9%	77	44.3%
Male	4,683	100.0%	3,976	84.9%	2,931	62.6%	2,400	51.3%	110	100.0%	93	84.7%	33	29.8%
Total	35,406	100.0%	32,149	90.8%	25,044	70.7%	20,836	58.8%	773	100.0%	663	85.8%	269	34.8%

Note. Other exposure category and perinatal transmission not shown. Multiple imputation was used to estimate and adjust for missing transmission category. Exposure category estimates are rounded to whole numbers after percentages are calculated. This may be more noticeable in the precision of estimates calculated for small numbers of people.

Data for 2020 and 2021 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing and care-related services.

Figure 9 – Diagnosis-Based Estimated 2021 HIV Continuum of Care Cascades, among Current Maryland Residents Aged 13+, Reported through June 30, 2022

The diagnosis-based Maryland Engagement in HIV Care Cascade (below) uses Maryland surveillance data for current Maryland residents to describe the number and percentage of persons living with diagnosed HIV in Maryland on December 31, 2021 and the number and percentage of new HIV diagnoses in 2021 who belong to each of the stages of engagement in HIV care.

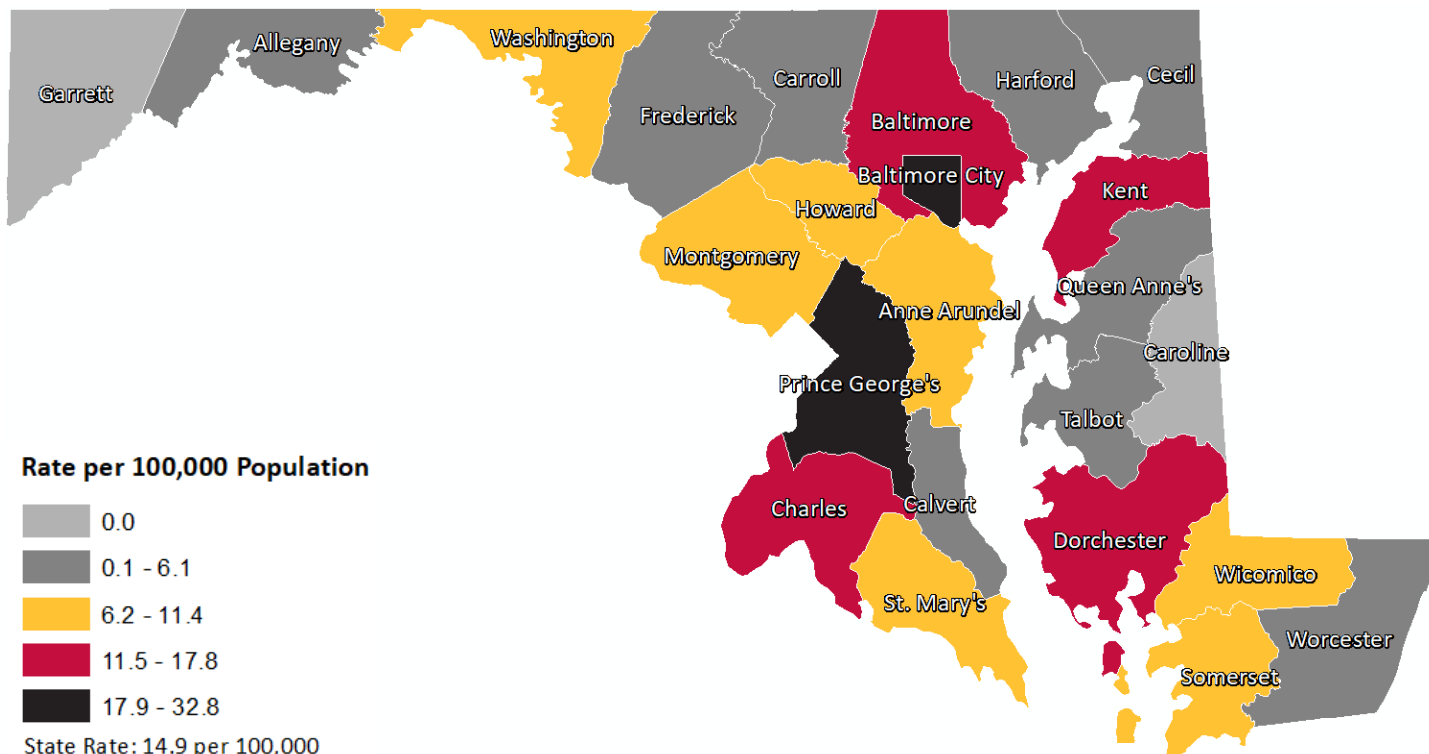


Continuum of Care Stage	People Aged 13+ Living with HIV		Continuum of Care Stage	Reported 2021 HIV Diagnoses	
	Number	Percent		Number	Percent
HIV Diagnosed	32,149	100.0%	New HIV Diagnoses	773	100.0%
Retained in HIV Care	25,044	77.9%	Linked to HIV Care	663	85.8%
Suppressed Viral Load	20,836	64.8%	Suppressed Viral Load – 6 Months	269	34.8%

Data for 2020 and 2021 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing and care-related services.

Section IV – By Jurisdiction

Maryland Reported HIV Diagnoses among People Aged 13+, Rate by Jurisdiction, 2021



- The rate of new HIV diagnoses among people aged 13+ in Maryland is **14.9 per 100,000**.
Jurisdictions with the highest rate of new HIV diagnoses among people aged 13+ in Maryland include:
 - Baltimore City: 32.8 per 100,000
 - Prince George's County: 30.4 per 100,000
 - Charles County: 17.8 per 100,000
 - Kent County: 17.5 per 100,000
- The rate of new AIDS diagnoses among people aged 13+ in Maryland is **8.5 per 100,000**.
Jurisdictions with the highest rate of new AIDS diagnoses among people aged 13+ in Maryland include:
 - Baltimore City: 24.3 per 100,000
 - Prince George's County: 16.7 per 100,000
 - Somerset County: 9.3 per 100,000
 - Charles County: 7.8 per 100,000

Table 1 – Reported HIV Diagnoses and Reported AIDS Diagnoses, among People Aged 13+ during 2021, by Jurisdiction of Residence at Diagnosis, Reported through June 30, 2022

Jurisdiction of Residence at Diagnosis	Population Aged 13+	Reported HIV Diagnoses among People Aged 13+			Reported AIDS Diagnoses among People Aged 13+		
		No.	% of Total	Rate	No.	% of Total	Rate
Allegany	59,378	2	0.3%	3.4	1	0.2%	1.7
Anne Arundel	495,875	38	4.9%	7.7	15	3.4%	3.0
Baltimore City	490,631	161	20.8%	32.8	119	27.2%	24.3
Baltimore	717,800	106	13.7%	14.8	48	11.0%	6.7
Calvert	78,973	4	0.5%	5.1	2	0.5%	2.5
Caroline	27,816	0	0.0%	0.0	1	0.2%	3.6
Carroll	147,304	8	1.0%	5.4	6	1.4%	4.1
Cecil	87,791	1	0.1%	1.1	3	0.7%	3.4
Charles	140,617	25	3.2%	17.8	11	2.5%	7.8
Dorchester	27,673	4	0.5%	14.5	0	0.0%	0.0
Frederick	234,052	11	1.4%	4.7	10	2.3%	4.3
Garrett	25,091	0	0.0%	0.0	0	0.0%	0.0
Harford	221,922	9	1.2%	4.1	3	0.7%	1.4
Howard	278,903	22	2.8%	7.9	13	3.0%	4.7
Kent	17,162	3	0.4%	17.5	1	0.2%	5.8
Montgomery	884,987	101	13.1%	11.4	49	11.2%	5.5
Prince George's	802,287	244	31.6%	30.4	134	30.7%	16.7
Queen Anne's	43,380	1	0.1%	2.3	2	0.5%	4.6
Saint Mary's	95,213	7	0.9%	7.4	1	0.2%	1.1
Somerset	21,550	2	0.3%	9.3	2	0.5%	9.3
Talbot	32,881	2	0.3%	6.1	2	0.5%	6.1
Washington	131,419	12	1.6%	9.1	9	2.1%	6.8
Wicomico	87,489	9	1.2%	10.3	4	0.9%	4.6
Worcester	46,885	1	0.1%	2.1	1	0.2%	2.1
Corrections	--	0	0.0%	--	0	0.0%	--
Total	5,197,078	773	100.0%	14.9	437	100.0%	8.5

Data for 2020 and 2021 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing and care-related services.

Table 2 – Reported HIV Diagnoses, among People Aged 13+ during 2021, Linked to Care, Viral Suppression, Late Diagnosis, and First CD4 Test Result by Jurisdiction of Residence at Diagnosis, Reported through June 30, 2022

Jurisdiction of Residence at HIV Diagnosis	Reported HIV Diagnoses among People Aged 13+					
	No.	% Linked to Care	% Virally Suppressed - 6 months	% Late HIV Diagnoses	First CD4 Test Result	
					% with Test	Median Count
Allegany	2	***	***	***	***	***
Anne Arundel	38	89.5%	34.2%	23.7%	94.7%	343
Baltimore City	161	84.5%	34.8%	17.4%	93.8%	402
Baltimore	106	90.6%	35.8%	27.4%	96.2%	384
Calvert	4	***	***	***	***	***
Caroline	0	--	--	--	--	--
Carroll	8	100.0%	***	62.5%	100.0%	96
Cecil	1	***	***	***	***	***
Charles	25	80.0%	32.0%	20.0%	96.0%	364
Dorchester	4	***	***	***	***	***
Frederick	11	63.6%	***	***	90.9%	312
Garrett	0	--	--	--	--	--
Harford	9	88.9%	***	0.0%	100.0%	500
Howard	22	90.9%	31.8%	***	100.0%	353
Kent	3	***	***	***	***	***
Montgomery	101	87.1%	41.6%	30.7%	93.1%	371
Prince George's	244	84.0%	34.8%	25.0%	91.0%	408
Queen Anne's	1	***	***	***	***	***
Saint Mary's	7	85.7%	***	***	100.0%	583
Somerset	2	***	***	***	***	***
Talbot	2	***	***	***	***	***
Washington	12	83.3%	***	***	91.7%	212
Wicomico	9	88.9%	55.6%	***	100.0%	279
Worcester	1	***	***	***	***	***
Corrections	0	--	--	--	--	--
Total	773	85.8%	34.8%	23.9%	93.5%	385

*** Data withheld due to low population counts and/or small numbers.

Data for 2020 and 2021 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing and care-related services.

Table 3 – People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2021, by Jurisdiction of Residence at Diagnosis and Current Residence, Reported through June 30, 2022

Jurisdiction of Residence	Population Aged 13+	Total People Aged 13+ Living with Diagnosed HIV								
		Residence at Diagnosis				Current Residence				% Change
		No.	% of Total	Rate	Ratio (1 in X)	No.	% of Total	Rate	Ratio (1 in X)	
Allegany	59,378	94	0.3%	158.3	632	135	0.4%	227.4	440	43.6%
Anne Arundel	495,875	1,343	4.0%	270.8	369	1,449	4.5%	292.2	342	7.9%
Baltimore City	490,631	11,948	35.9%	2,435.2	41	10,471	32.6%	2,134.2	47	-12.4%
Baltimore	717,800	3,335	10.0%	464.6	215	3,814	11.9%	531.3	188	14.4%
Calvert	78,973	117	0.4%	148.2	675	136	0.4%	172.2	581	16.2%
Caroline	27,816	67	0.2%	240.9	415	66	0.2%	237.3	421	-1.5%
Carroll	147,304	160	0.5%	108.6	921	173	0.5%	117.4	851	8.1%
Cecil	87,791	130	0.4%	148.1	675	164	0.5%	186.8	535	26.2%
Charles	140,617	530	1.6%	376.9	265	679	2.1%	482.9	207	28.1%
Dorchester	27,673	128	0.4%	462.5	216	159	0.5%	574.6	174	24.2%
Frederick	234,052	390	1.2%	166.6	600	498	1.5%	212.8	470	27.7%
Garrett	25,091	10	0.0%	39.9	2,509	16	0.0%	63.8	1,568	60.0%
Harford	221,922	467	1.4%	210.4	475	537	1.7%	242.0	413	15.0%
Howard	278,903	654	2.0%	234.5	426	745	2.3%	267.1	374	13.9%
Kent	17,162	44	0.1%	256.4	390	53	0.2%	308.8	324	20.5%
Montgomery	884,987	4,193	12.6%	473.8	211	3,674	11.4%	415.1	241	-12.4%
Prince George's	802,287	8,066	24.2%	1,005.4	99	8,107	25.2%	1,010.5	99	0.5%
Queen Anne's	43,380	56	0.2%	129.1	775	56	0.2%	129.1	775	0.0%
Saint Mary's	95,213	147	0.4%	154.4	648	169	0.5%	177.5	563	15.0%
Somerset	21,550	78	0.2%	361.9	276	93	0.3%	431.6	232	19.2%
Talbot	32,881	67	0.2%	203.8	491	82	0.3%	249.4	401	22.4%
Washington	131,419	327	1.0%	248.8	402	393	1.2%	299.0	334	20.2%
Wicomico	87,489	264	0.8%	301.8	331	268	0.8%	306.3	326	1.5%
Worcester	46,885	77	0.2%	164.2	609	69	0.2%	147.2	679	-10.4%
Corrections	--	622	1.9%	--	--	143	0.4%	--	--	--
Total	5,197,078	33,314	100.0%	641.0	156	32,149	100.0%	618.6	162	-3.5%

Table 4 – CD4 Test Results during 2021 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2021, by Jurisdiction of Current Residence, Reported through June 30, 2022

Jurisdiction of Current Residence	Total People Aged 13+ Living with Diagnosed HIV							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Allegany	135	120	88.9%	659	3.3%	6.7%	15.8%	74.2%
Anne Arundel	1,449	1,069	73.8%	648	5.9%	8.6%	16.8%	68.7%
Baltimore City	10,471	7,532	71.9%	601	8.7%	12.8%	16.4%	62.2%
Baltimore	3,814	2,707	71.0%	645	6.2%	10.0%	16.1%	67.7%
Calvert	136	111	81.6%	677	3.6%	16.2%	12.6%	67.6%
Caroline	66	53	80.3%	695	7.5%	7.5%	15.1%	69.8%
Carroll	173	130	75.1%	631	11.5%	9.2%	13.8%	65.4%
Cecil	164	99	60.4%	602	5.1%	12.1%	20.2%	62.6%
Charles	679	534	78.6%	678	9.0%	9.6%	14.8%	66.7%
Dorchester	159	112	70.4%	576	7.1%	17.9%	17.0%	58.0%
Frederick	498	364	73.1%	619	8.2%	9.9%	14.3%	67.6%
Garrett	16	13	81.3%	795	0.0%	0.0%	23.1%	76.9%
Harford	537	360	67.0%	662	6.4%	12.5%	14.4%	66.7%
Howard	745	576	77.3%	660	5.6%	10.1%	14.8%	69.6%
Kent	53	43	81.1%	653	9.3%	2.3%	18.6%	69.8%
Montgomery	3,674	2,534	69.0%	595	6.4%	12.5%	18.0%	63.2%
Prince George's	8,107	6,034	74.4%	636	6.6%	10.6%	15.9%	66.9%
Queen Anne's	56	45	80.4%	596	13.3%	15.6%	6.7%	64.4%
Saint Mary's	169	134	79.3%	625	9.7%	11.9%	17.9%	60.4%
Somerset	93	68	73.1%	681	10.3%	5.9%	14.7%	69.1%
Talbot	82	65	79.3%	603	12.3%	18.5%	7.7%	61.5%
Washington	393	299	76.1%	676	5.4%	10.4%	12.7%	71.6%
Wicomico	268	194	72.4%	556	11.9%	14.4%	17.0%	56.7%
Worcester	69	57	82.6%	607	5.3%	7.0%	12.3%	75.4%
Corrections	143	105	73.4%	706	5.7%	7.6%	11.4%	75.2%
Total	32,149	23,358	72.7%	624	7.3%	11.4%	16.1%	65.2%

Table 5 – Viral Load Test Results during 2021 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2021, by Jurisdiction of Current Residence, Reported through June 30, 2022

Jurisdiction of Current Residence	Total People Aged 13+ Living with Diagnosed HIV				
	No.	Recent Viral Load Test Result			Median Unsuppressed Viral Load
		No. with Test	% with Test	% Suppressed	
Allegany	135	123	91.1%	92.7%	557
Anne Arundel	1,449	1,060	73.2%	91.3%	8,785
Baltimore City	10,471	7,887	75.3%	87.5%	9,660
Baltimore	3,814	2,836	74.4%	90.5%	9,300
Calvert	136	112	82.4%	97.3%	85,300
Caroline	66	56	84.8%	94.6%	30,300
Carroll	173	132	76.3%	89.4%	8,836
Cecil	164	102	62.2%	89.2%	1,160
Charles	679	497	73.2%	88.5%	11,090
Dorchester	159	119	74.8%	91.6%	34,801
Frederick	498	370	74.3%	92.2%	1,110
Garrett	16	13	81.3%	100.0%	--
Harford	537	373	69.5%	89.3%	27,595
Howard	745	573	76.9%	91.1%	3,090
Kent	53	40	75.5%	85.0%	186,225
Montgomery	3,674	2,358	64.2%	91.5%	9,235
Prince George's	8,107	5,644	69.6%	90.1%	9,335
Queen Anne's	56	45	80.4%	93.3%	262
Saint Mary's	169	130	76.9%	87.7%	32,031
Somerset	93	70	75.3%	88.6%	35,350
Talbot	82	69	84.1%	95.7%	19,100
Washington	393	299	76.1%	93.3%	18,150
Wicomico	268	192	71.6%	89.1%	5,420
Worcester	69	54	78.3%	88.9%	4,345
Corrections	143	106	74.1%	87.7%	471
Total	32,149	23,260	72.4%	89.6%	9,325

Section V – By Age

Table 6 – Reported HIV Diagnoses during 2021, Linked to Care, Viral Suppression, Late Diagnosis, and First CD4 Test Result by Age at HIV Diagnosis, Reported through June 30, 2022

Age at HIV Diagnosis	Population	Reported HIV Diagnoses						First CD4 Test Result	
		No.	% of Total	Rate	% Linked to Care	% Virally Suppressed - 6 months	% Late HIV Diagnoses	% with Test	Median Count
<5 (Pediatric)	354,588	1	0.1%	0.3	***	***	***	***	***
5-12 (Pediatric)	613,463	1	0.1%	0.2	***	***	***	***	***
13-19	551,180	40	5.2%	7.3	85.0%	27.5%	***	92.5%	448
20-29	766,523	220	28.4%	28.7	85.0%	34.1%	11.4%	93.2%	426
30-39	853,423	247	31.9%	28.9	87.4%	36.4%	28.7%	95.5%	347
40-49	772,992	114	14.7%	14.7	86.0%	37.7%	24.6%	92.1%	392
50-59	844,356	95	12.3%	11.3	83.2%	34.7%	37.9%	90.5%	329
60+	1,408,604	57	7.4%	4.0	86.0%	29.8%	36.8%	94.7%	280
Total	6,165,129	775	100.0%	12.6	85.8%	34.8%	24.0%	93.5%	385

Data for 2020 and 2021 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing and care-related services.

*** Data withheld due to low population counts and/or small numbers.

Table 7 – People Living with Diagnosed HIV, Alive on December 31, 2021, by Age on December 31, 2021, Reported through June 30, 2022

Age on December 31, 2021	Population	Total People Living with Diagnosed HIV			
		No.	% of Total	Rate	Ratio (1 in X)
<5 (Pediatric)	354,588	5	0.0%	1.4	70,918
5-12 (Pediatric)	613,463	29	0.1%	4.7	21,154
13-19	551,180	142	0.4%	25.8	3,882
20-29	766,523	2,266	7.0%	295.6	338
30-39	853,423	6,157	19.1%	721.4	139
40-49	772,992	6,312	19.6%	816.6	122
50-59	844,356	9,109	28.3%	1,078.8	93
60+	1,408,604	8,163	25.4%	579.5	173
Total	6,165,129	32,183	100.0%	522.0	192

Table 8 – CD4 Test Results during 2021 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2021, by Age on December 31, 2021, Reported through June 30, 2022

Age on December 31, 2021	Total People Aged 13+ Living with Diagnosed HIV							
	No.	Recent CD4 Test Results				<200	200-349	350-499
		No. with Test	% with Test	Median Count				
13-19	142	111	78.2%	633	6.3%	3.6%	14.4%	75.7%
20-29	2,266	1,714	75.6%	660	6.0%	8.3%	13.4%	72.3%
30-39	6,157	4,428	71.9%	644	8.1%	10.2%	14.7%	67.0%
40-49	6,312	4,459	70.6%	645	7.3%	10.3%	16.0%	66.4%
50-59	9,109	6,697	73.5%	620	7.2%	11.9%	16.5%	64.5%
60+	8,163	5,949	72.9%	590	7.2%	13.5%	17.8%	61.5%
Total	32,149	23,358	72.7%	624	7.3%	11.4%	16.1%	65.2%

Table 9 – Viral Load Test Results during 2021 for People Living with Diagnosed HIV, Alive on December 31, 2021, by Age on December 31, 2021, Reported through June 30, 2022

Age on December 31, 2021	Total People Aged 13+ Living with Diagnosed HIV				
	No.	Recent Viral Load Test Result			Median Unsuppressed Viral Load
		No. with Test	% with Test	% Suppressed	
13-19	142	121	85.2%	77.7%	10,100
20-29	2,266	1,687	74.4%	80.2%	10,785
30-39	6,157	4,352	70.7%	83.9%	11,900
40-49	6,312	4,442	70.4%	90.4%	9,500
50-59	9,109	6,736	73.9%	91.6%	6,365
60+	8,163	5,922	72.5%	93.8%	5,060
Total	32,149	23,260	72.4%	89.6%	9,325

Section VI – By Demographics

Table 10 – Reported HIV Diagnoses, among People Aged 13+ during 2021, Linked to Care, Viral Suppression, Late Diagnosis, and First CD4 Test Result by Sex at Birth, Gender, Race/Ethnicity, and Country of Birth, Reported through June 30, 2022

Demographic Characteristics	Population Aged 13+	Reported HIV Diagnoses among People Aged 13+							
		No.	% of Total	Rate	% Linked to Care	% Virally Suppressed - 6 months	% Late HIV Diagnoses	First CD4 Test Result % with Test	Median Count
Sex at Birth									
Female	2,689,328	195	25.2%	7.3	89.2%	42.6%	24.1%	95.4%	426
Male	2,507,749	578	74.8%	23.0	84.6%	32.2%	23.9%	92.9%	377
Gender									
Cisgender Man or Boy	2,507,749	558	72.2%	22.3	84.4%	32.4%	24.4%	92.7%	370
Cisgender Woman or Girl	2,689,328	192	24.8%	7.1	90.1%	42.7%	24.5%	95.3%	434
Transgender Woman or Girl	--	20	2.6%	--	***	***	***	***	***
Transgender Man or Boy	--	3	0.4%	--	***	***	***	***	***
Another Gender Identity	--	0	0.0%	--	--	--	--	--	--
Race/Ethnicity									
Hispanic	512,844	101	13.1%	19.7	91.1%	38.6%	31.7%	96.0%	341
Non-Hispanic	4,684,233	672	86.9%	14.3	85.0%	34.2%	22.8%	93.2%	402
American Indian/Alaska Native, only	12,990	0	0.0%	0.0	--	--	--	--	--
Asian, only	355,851	10	1.3%	2.8	***	***	***	***	***
Black, only	1,568,579	556	71.9%	35.4	84.0%	34.0%	22.7%	93.0%	407
Native Hawaiian/Other Pacific Islander, only	2,612	1	0.1%	38.3	***	***	***	***	***
White, only	2,637,875	91	11.8%	3.4	87.9%	33.0%	19.8%	93.4%	394
Multiracial/Other	106,326	14	1.8%	13.2	100.0%	50.0%	35.7%	100.0%	297
Total	5,197,078	773	100.0%	14.9	85.8%	34.8%	23.9%	93.5%	385
Country of Birth									
United States	4,196,792	655	84.7%	15.6	85.5%	33.9%	21.1%	93.4%	406
Foreign-Born	875,892	92	11.9%	10.5	90.2%	41.3%	41.3%	96.7%	291
Africa	--	49	6.3%	--	89.8%	38.8%	38.8%	95.9%	271
Asia	--	5	0.6%	--	100.0%	***	***	100.0%	147
Caribbean	--	7	0.9%	--	71.4%	***	***	85.7%	569
Central America	--	22	2.8%	--	90.9%	54.5%	45.5%	100.0%	269
Other	--	9	1.2%	--	100.0%	***	***	100.0%	322
Unknown	--	26	3.4%	--	76.9%	34.6%	34.6%	84.6%	327
Total	5,072,684	773	100.0%	15.2	85.8%	34.8%	23.9%	93.5%	385

Note. Population data by sex at birth, age, and race/ethnicity are from the 2021 United States Census population estimates. Population data by gender are unavailable. Population data by country of birth are from the 2020 American Community Survey.

Data for 2020 and 2021 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing and care-related services.

*** Data withheld due to low population counts and/or small numbers.

Table 11 – Reported HIV Diagnoses, among People Aged 13+ during 2021 by Sex at Birth and Race/Ethnicity, Reported through June 30, 2022

Reported HIV Diagnoses among People Aged 13+								
Race/Ethnicity	Sex at Birth							
	Female				Male			
	Population 13+	No.	% of Total	Rate	Population 13+	No.	% of Total	Rate
Hispanic	247,278	18	9.2%	7.3	265,567	83	14.4%	31.3
Non-Hispanic	2,442,051	177	90.8%	22.1	2,242,183	495	85.6%	22.1
American Indian/Alaska Native, only	6,710	0	0.0%	0.0	6,280	0	0.0%	0.0
Asian, only	188,578	1	0.5%	0.5	167,273	9	1.6%	5.4
Black, only	844,736	152	77.9%	18.0	723,843	404	69.9%	55.8
Native Hawaiian/Other Pacific Islander, only	1,401	0	0.0%	0.0	1,211	1	0.2%	82.6
White, only	1,344,395	22	11.3%	1.6	1,293,480	69	11.9%	5.3
Multiracial/Other	56,230	2	1.0%	3.6	50,096	12	2.1%	24.0
Total	2,689,328	195	100.0%	23.0	2,507,749	578	100.0%	23.0

Note. Population data by sex at birth, age, and race/ethnicity are from the 2021 United State Census population estimates.

Data for 2020 and 2021 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing and care-related services.

Table 12 – People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2021, by Sex at Birth, Gender, Race/Ethnicity, and Country of Birth, Reported through June 30, 2022

Demographic Characteristics	Population Aged 13+	Total People Aged 13+ Living with Diagnosed HIV			
		No.	% of Total	Rate	Ratio (1 in X)
Sex at Birth					
Female	2,689,328	10,839	33.7%	403.0	248
Male	2,507,749	21,310	66.3%	849.8	118
Gender					
Cisgender Man or Boy	2,507,749	20,946	65.2%	835.3	120
Cisgender Woman or Girl	2,689,328	10,815	33.6%	402.1	249
Transgender Woman or Girl	--	363	1.1%	--	--
Transgender Man or Boy	--	24	0.1%	--	--
Another Gender Identity	--	1	0.0%	--	--
Race/Ethnicity					
Hispanic	512,844	2,347	7.3%	457.6	219
Non-Hispanic	4,684,233	29,802	92.7%	636.2	157
American Indian/Alaska Native, only	12,990	19	0.1%	146.3	684
Asian, only	355,851	257	0.8%	72.2	1,385
Black, only	1,568,579	23,916	74.4%	1,524.7	66
Native Hawaiian/Other Pacific Islander, only	2,612	4	0.0%	153.1	653
White, only	2,637,875	3,896	12.1%	147.7	677
Multiracial/Other	106,326	1,710	5.3%	1,608.3	62
Total	5,197,078	32,149	100.0%	618.6	162
Country of Birth					
United States	4,196,792	27,066	84.2%	644.9	155
Foreign-Born	875,892	4,164	13.0%	475.4	210
Africa	--	2,597	8.1%	--	--
Asia	--	214	0.7%	--	--
Caribbean	--	313	1.0%	--	--
Central America	--	707	2.2%	--	--
Other	--	333	1.0%	--	--
Unknown	--	919	2.9%	--	--
Total	5,072,684	32,149	100.0%	633.8	158

Note. Population data by sex at birth, age, and race/ethnicity are from the 2021 United States Census population estimates. Population data by gender are unavailable. Population data by country of birth are from the 2020 American Community Survey.

Table 13 – People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2021, by Sex at Birth and Race/Ethnicity, Reported through June 30, 2022

Total People Aged 13+ Living with Diagnosed HIV								
Race/Ethnicity	Sex at Birth							
	Female				Male			
	Population 13+	No.	% of Total	Rate	Population 13+	No.	% of Total	Rate
Hispanic	247,278	525	4.8%	212.3	265,567	1,822	8.5%	686.1
Non-Hispanic	2,442,051	10,314	95.2%	422.3	2,242,183	19,488	91.5%	869.2
American Indian/Alaska Native, only	6,710	7	0.1%	104.3	6,280	12	0.1%	191.1
Asian, only	188,578	53	0.5%	28.1	167,273	204	1.0%	122.0
Black, only	844,736	8,965	82.7%	1,061.3	723,843	14,951	70.2%	2,065.5
Native Hawaiian/Other Pacific Islander, only	1,401	0	0.0%	0.0	1,211	4	0.0%	330.4
White, only	1,344,395	765	7.1%	56.9	1,293,480	3,131	14.7%	242.1
Multiracial/Other	56,230	524	4.8%	931.9	50,096	1,186	5.6%	2,367.5
Total	2,689,328	10,839	100.0%	403.0	2,507,749	21,310	100.0%	849.8

Note. Population data by sex at birth, age, and race/ethnicity are from the 2021 United States Census population estimates.

Table 14 – CD4 Test Results during 2021 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2021, by Sex at Birth, Gender, Race/Ethnicity, and Country of Birth, Reported through June 30, 2022

Demographic Characteristics	Total People Aged 13+ Living with Diagnosed HIV							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Sex at Birth								
Female	10,839	7,937	73.2%	664	6.9%	10.3%	13.9%	68.8%
Male	21,310	15,421	72.4%	605	7.5%	11.9%	17.3%	63.3%
Gender								
Cisgender Man or Boy	20,946	15,138	72.3%	603	7.5%	12.0%	17.4%	63.2%
Cisgender Woman or Girl	10,815	7,917	73.2%	664	6.9%	10.4%	13.9%	68.8%
Transgender Woman or Girl	363	283	78.0%	715	7.1%	10.2%	12.0%	70.7%
Transgender Man or Boy	24	***	***	***	***	***	***	***
Another Gender Identity	1	***	***	***	***	***	***	***
Race/Ethnicity								
Hispanic	2,347	1,687	71.9%	617	7.5%	10.6%	17.5%	64.5%
Non-Hispanic	29,802	21,671	72.7%	625	7.3%	11.5%	16.0%	65.2%
American Indian/Alaska Native, only	19	***	***	***	***	***	***	***
Asian, only	257	174	67.7%	574	2.9%	15.5%	17.2%	64.4%
Black, only	23,916	17,396	72.7%	623	7.4%	11.6%	15.9%	65.1%
Native Hawaiian/Other Pacific Islander, only	4	***	***	***	***	***	***	***
White, only	3,896	2,770	71.1%	648	5.9%	10.5%	15.6%	68.0%
Multiracial/Other	1,710	1,318	77.1%	604	8.5%	11.5%	18.4%	61.5%
Country of Birth								
United States	27,066	19,830	73.3%	626	7.5%	11.4%	15.8%	65.4%
Foreign-Born	4,164	2,907	69.8%	598	6.4%	11.9%	18.9%	62.8%
Africa	2,597	1,798	69.2%	590	6.6%	11.4%	19.4%	62.7%
Asia	214	153	71.5%	574	2.0%	17.0%	19.6%	61.4%
Caribbean	313	223	71.2%	648	9.4%	13.0%	13.5%	64.1%
Central America	707	521	73.7%	608	6.7%	12.7%	19.2%	61.4%
Other	333	212	63.7%	649	3.8%	9.0%	19.8%	67.5%
Unknown	919	621	67.6%	670	4.0%	10.5%	15.8%	69.7%
Total	32,149	23,358	72.7%	624	7.3%	11.4%	16.1%	65.2%

*** Data withheld due to low population counts and/or small numbers.

Table 15 – Viral Load Test Results during 2021 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2021, by Sex at Birth, Gender, Race/Ethnicity, and Country of Birth, Reported through June 30, 2022

Demographic Characteristics	Total People Aged 13+ Living with Diagnosed HIV				
	No.	Recent Viral Load Test Result			Median Unsuppressed Viral Load
		No. with Test	% with Test	% Suppressed	
Sex at Birth					
Female	10,839	7,952	73.4%	90.0%	7,290
Male	21,310	15,308	71.8%	89.4%	10,500
Gender					
Cisgender Man or Boy	20,946	15,025	71.7%	89.6%	10,550
Cisgender Woman or Girl	10,815	7,933	73.4%	90.0%	7,280
Transgender Woman or Girl	363	282	77.7%	80.1%	7,785
Transgender Man or Boy	24	***	***	***	***
Another Gender Identity	1	***	***	***	***
Race/Ethnicity					
Hispanic	2,347	1,667	71.0%	91.1%	10,300
Non-Hispanic	29,802	21,593	72.5%	89.5%	9,316
American Indian/Alaska Native, only	19	***	***	***	***
Asian, only	257	181	70.4%	97.2%	33,100
Black, only	23,916	17,227	72.0%	88.7%	9,335
Native Hawaiian/Other Pacific Islander, only	4	***	***	***	***
White, only	3,896	2,850	73.2%	93.3%	12,750
Multiracial/Other	1,710	1,321	77.3%	90.5%	3,440
Country of Birth					
United States	27,066	19,862	73.4%	89.1%	9,390
Foreign-Born	4,164	2,788	67.0%	92.6%	8,660
Africa	2,597	1,701	65.5%	92.3%	5,900
Asia	214	150	70.1%	98.7%	209,050
Caribbean	313	215	68.7%	89.8%	39,430
Central America	707	516	73.0%	92.6%	3,965
Other	331	204	61.6%	93.1%	23,972
Unknown	919	610	66.4%	91.8%	6,738
Total	32,149	23,260	72.4%	89.6%	9,325

*** Data withheld due to low population counts and/or small numbers.

Table 16 – Females Living with Diagnosed HIV by Age on December 31, 2021 and Race/Ethnicity, Alive on December 31, 2021, and Reported through June 30, 2022

Total Females Living with Diagnosed HIV						
Age on December 31, 2021		Race/Ethnicity				Total Females by Age Group
		Hispanic	Non-Hispanic Black, only	Non-Hispanic White, only	Non-Hispanic Other Race	
<13 (Pediatric)	Population	83,615	144,959	186,257	58,545	473,377
	Number	0	17	3	1	21
	Rate	0.0	11.7	1.6	1.7	4.4
	Ratio (1 in X)	--	8,527	62,086	58,545	22,542
13-19	Population	39,526	84,243	114,778	31,725	270,271
	Number	3	47	4	3	57
	Rate	7.6	55.8	3.5	9.5	21.1
	Ratio (1 in X)	13,175	1,792	28,694	10,575	4,742
20-29	Population	45,638	128,873	167,977	39,262	381,750
	Number	34	410	20	16	480
	Rate	74.5	318.1	11.9	40.8	125.7
	Ratio (1 in X)	1,342	314	8,399	2,454	795
30-39	Population	48,843	141,806	196,308	45,577	432,534
	Number	94	1,160	132	93	1,479
	Rate	192.5	818.0	67.2	204.1	341.9
	Ratio (1 in X)	520	122	1,487	490	292
40-49	Population	47,126	128,423	175,079	44,021	394,649
	Number	148	2,093	182	153	2,576
	Rate	314.1	1,629.8	104.0	347.6	652.7
	Ratio (1 in X)	318	61	962	288	153
50-59	Population	32,921	141,884	223,478	37,496	435,779
	Number	150	2,874	239	157	3,420
	Rate	455.6	2,025.6	106.9	418.7	784.8
	Ratio (1 in X)	219	49	935	239	127
60+	Population	33,224	219,507	466,775	54,839	774,345
	Number	96	2,381	188	162	2,827
	Rate	288.9	1,084.7	40.3	295.4	365.1
	Ratio (1 in X)	346	92	2,483	339	274
Total Females by Race/Ethnicity	Population	330,893	989,695	1,530,652	311,465	3,162,705
	Number	525	8,982	768	585	10,860
	Rate	158.7	907.6	50.2	187.8	343.4
	Ratio (1 in X)	630	110	1,993	532	291

Table 17 – Males Living with Diagnosed HIV by Age on December 31, 2021 and Race/Ethnicity, Alive on December 31, 2021, and Reported through June 30, 2022

Total Males Living with Diagnosed HIV						
Age on December 31, 2021		Race/Ethnicity				Total Males by Age Group
		Hispanic	Non-Hispanic Black, only	Non-Hispanic White, only	Non-Hispanic Other Race	
<13 (Pediatric)	Population	87,977	148,983	196,450	61,264	494,675
	Number	1	9	2	1	13
	Rate	1.1	6.0	1.0	1.6	2.6
	Ratio (1 in X)	87,977	16,554	98,225	61,264	38,052
13-19	Population	41,457	85,941	120,994	32,517	280,908
	Number	9	70	5	1	85
	Rate	21.7	81.5	4.1	3.1	30.3
	Ratio (1 in X)	4,606	1,228	24,199	32,517	3,305
20-29	Population	47,671	124,067	175,001	38,034	384,773
	Number	213	1,366	121	86	1,786
	Rate	446.8	1,101.0	69.1	226.1	464.2
	Ratio (1 in X)	224	91	1,446	442	215
30-39	Population	54,935	127,512	198,275	40,167	420,889
	Number	472	3,453	437	316	4,678
	Rate	859.2	2,708.0	220.4	786.7	1,111.5
	Ratio (1 in X)	116	37	454	127	90
40-49	Population	56,002	110,496	174,197	37,648	378,343
	Number	498	2,444	536	258	3,736
	Rate	889.3	2,211.8	307.7	685.3	987.5
	Ratio (1 in X)	112	45	325	146	101
50-59	Population	36,720	120,577	219,269	32,011	408,577
	Number	399	3,886	1,007	397	5,689
	Rate	1,086.6	3,222.8	459.3	1,240.2	1,392.4
	Ratio (1 in X)	92	31	218	81	72
60+	Population	28,782	155,250	405,744	44,483	634,259
	Number	231	3,732	1,025	348	5,336
	Rate	802.6	2,403.9	252.6	782.3	841.3
	Ratio (1 in X)	125	42	396	128	119
Total Males by Race/Ethnicity	Population	353,544	872,826	1,489,930	286,124	3,002,424
	Number	1,823	14,960	3,133	1,407	21,323
	Rate	515.6	1,714.0	210.3	491.7	710.2
	Ratio (1 in X)	194	58	476	203	141

Section VII – By HIV Exposure Category

Table 18 – Reported HIV Diagnoses, among People Aged 13+ during 2021, Linked to Care, Viral Suppression, Late Diagnosis, and First CD4 Test Result, by Estimated or Reported Exposure Category and Sex at Birth, Reported through June 30, 2022

Estimated or Reported Exposure Category	Reported HIV Diagnoses among People Aged 13+							
	No.	% of Total	% Linked to Care	% Virally Suppressed - 6 months	% Late HIV Diagnoses	First CD4 Test Result		
						% with Test	Median Count	
Male-to-male Sexual Contact (MMSC)	416	53.8%	84.9%	34.1%	19.4%	92.7%	398	
Injection Drug Use (IDU)	61	7.9%	82.6%	***	***	88.6%	381	
Male-to-male Sexual Contact and Injection Drug Use (MMSC/IDU)	12	1.5%	80.7%	***	***	86.6%	392	
Heterosexual Contact (HET)	284	36.8%	87.9%	38.7%	30.5%	96.1%	363	
Perinatal Transmission	0	0.0%	--	--	--	--	--	
Other Exposure	0	0.0%	--	--	--	--	--	
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--	
Total	773	100.0%	85.8%	34.8%	23.9%	93.5%	385	
Female Estimated or Reported Exposure Category								
Injection Drug Use (IDU)	21	10.7%	83.3%	27.8%	***	97.1%	434	
Heterosexual Contact (HET)	174	89.3%	89.9%	44.3%	***	95.2%	425	
Perinatal Transmission	0	0.0%	--	--	--	--	--	
Other Exposure	0	0.0%	--	--	--	--	--	
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--	
Total	195	100.0%	89.2%	42.6%	24.1%	95.4%	426	
Male Estimated or Reported Exposure Category								
Male-to-male Sexual Contact (MMSC)	416	71.9%	84.9%	34.1%	19.4%	92.7%	398	
Injection Drug Use (IDU)	41	7.0%	82.2%	***	***	84.2%	363	
Male-to-male Sexual Contact and Injection Drug Use (MMSC/IDU)	12	2.1%	80.7%	***	***	86.6%	392	
Heterosexual Contact (HET)	110	19.0%	84.7%	29.8%	39.7%	97.6%	277	
Perinatal Transmission	0	0.0%	--	--	--	--	--	
Other Exposure	0	0.0%	--	--	--	--	--	
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--	
Total	578	100.0%	84.6%	32.2%	23.9%	92.9%	377	

Note. Data for 2021 are preliminary because they are based on a 6-month reporting delay and should not be used to assess trends. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. Exposure category estimates are rounded to whole numbers after percentages are calculated. This may be more noticeable in the precision of estimates calculated for small numbers of people. Median count is weighted based on statistical adjustment. Exposure category is based on sex at birth. For exposure category by gender, please see the Maryland HIV Epidemiological Profile Gender Diverse People Supplement.

*** Data withheld due to low population counts and/or small numbers.

Data for 2020 and 2021 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing and care-related services.

Table 19 – People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2021, by Estimated or Reported Exposure Category and Sex at Birth, Reported through June 30, 2022

Estimated or Reported Exposure Category	Total People Aged 13+ Living with Diagnosed HIV	
	No.	% of Total
Male-to-male Sexual Contact (MMSC)	13,089	40.7%
Injection Drug Use (IDU)	4,981	15.5%
Male-to-male Sexual Contact and Injection Drug Use (MMSC/IDU)	1,118	3.5%
Heterosexual Contact (HET)	12,404	38.6%
Perinatal Transmission	426	1.3%
Other Exposure	45	0.1%
No Estimated or Reported Exposure	86	0.3%
Total	32,149	100.0%
Female Estimated or Reported Exposure Category		
Injection Drug Use (IDU)	2,104	19.4%
Heterosexual Contact (HET)	8,428	77.8%
Perinatal Transmission	245	2.3%
Other Exposure	20	0.2%
No Estimated or Reported Exposure	41	0.4%
Total	10,839	100.0%
Male Estimated or Reported Exposure Category		
Male-to-male Sexual Contact (MMSC)	13,089	61.4%
Injection Drug Use (IDU)	2,876	13.5%
Male-to-male Sexual Contact and Injection Drug Use (MMSC/IDU)	1,118	5.2%
Heterosexual Contact (HET)	3,976	18.7%
Perinatal Transmission	181	0.8%
Other Exposure	25	0.1%
No Estimated or Reported Exposure	45	0.2%
Total	21,310	100.0%

Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. Exposure category is based on sex at birth. For exposure category by gender, please see the Maryland HIV Epidemiological Profile Gender Diverse People Supplement.

Table 20 – People Aged 13+ Living with Diagnosed HIV by Estimated or Reported Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on December 31, 2021, and Reported through June 30, 2022

Estimated or Reported Exposure Category	Total People Aged 13+ Living with Diagnosed HIV					
	Race/Ethnicity					
	Hispanic		Non-Hispanic, Black, only		Non-Hispanic, White, only	
	No.	% of Total	No.	% of Total	No.	% of Total
Male-to-male Sexual Contact (MMSM)	1,243	53.0%	8,478	35.4%	2,413	61.9%
Injection Drug Use (IDU)	146	6.2%	4,012	16.8%	533	13.7%
Male-to-male Sexual Contact and Injection Drug Use (MMSM/IDU)	60	2.5%	788	3.3%	179	4.6%
Heterosexual Contact (HET)	873	37.2%	10,179	42.6%	725	18.6%
Perinatal Transmission	18	0.8%	372	1.6%	19	0.5%
Other Exposure	2	0.1%	18	0.1%	20	0.5%
No Estimated or Reported Exposure	6	0.3%	69	0.3%	7	0.2%
Total	2,348	100.0%	23,916	100.0%	3,896	100.0%

Male Estimated or Reported Exposure Category						
Male-to-male Sexual Contact (MMSM)	1,243	68.2%	8,478	56.7%	2,413	77.1%
Injection Drug Use (IDU)	86	4.7%	2,395	16.0%	255	8.1%
Male-to-male Sexual Contact and Injection Drug Use (MMSM/IDU)	60	3.3%	788	5.3%	179	5.7%
Heterosexual Contact (HET)	417	22.9%	3,097	20.7%	255	8.1%
Perinatal Transmission	11	0.6%	153	1.0%	9	0.3%
Other Exposure	2	0.1%	4	0.0%	17	0.5%
No Estimated or Reported Exposure	3	0.2%	36	0.2%	3	0.1%
Total	1,822	100.0%	14,951	100.0%	3,131	100.0%

Female Estimated or Reported Exposure Category						
Injection Drug Use (IDU)	60	11.4%	1,617	18.0%	278	36.4%
Heterosexual Contact (HET)	455	86.7%	7,082	79.0%	470	61.4%
Perinatal Transmission	7	1.3%	219	2.4%	10	1.3%
Other Exposure	0	0.0%	14	0.2%	3	0.4%
No Estimated or Reported Exposure	3	0.6%	33	0.4%	4	0.5%
Total	525	100.0%	8,965	100.0%	765	100.0%

Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. Exposure category is based on sex at birth. For exposure category by gender, please see the Maryland HIV Epidemiological Profile Gender Diverse People Supplement.

Table 21 – CD4 Test Results during 2021 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2021, by Estimated or Reported Exposure Category, Reported through June 30, 2022

Estimated or Reported Exposure Category	Total People Aged 13+ with Living Diagnosed HIV							
	No.	Recent CD4 Test Results						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Male-to-male Sexual Contact (MMSM)	13,089	9,632	73.6%	645	5.9%	9.9%	16.0%	68.2%
Injection Drug Use (IDU)	4,981	3,566	71.6%	568	9.7%	15.4%	17.3%	57.6%
Male-to-male Sexual Contact and Injection Drug Use (MMSM/IDU)	1,118	826	73.9%	553	10.2%	13.9%	19.3%	56.6%
Heterosexual Contact (HET)	12,404	8,912	71.8%	638	7.2%	11.2%	15.6%	65.9%
Perinatal Transmission	426	324	76.1%	586	14.8%	10.5%	13.3%	61.4%
Other Exposure	45	36	80.0%	521	11.1%	11.1%	16.7%	61.1%
No Estimated or Reported Exposure	86	61	70.9%	601	16.4%	4.9%	13.1%	65.6%
Total	32,149	23,358	72.7%	624	7.3%	11.4%	16.1%	65.2%

Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. Median count is weighted based on statistical adjustment.

Table 22 – Viral Load Test Results during 2021 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2021, by Estimated or Reported Exposure Category, Reported through June 30, 2022

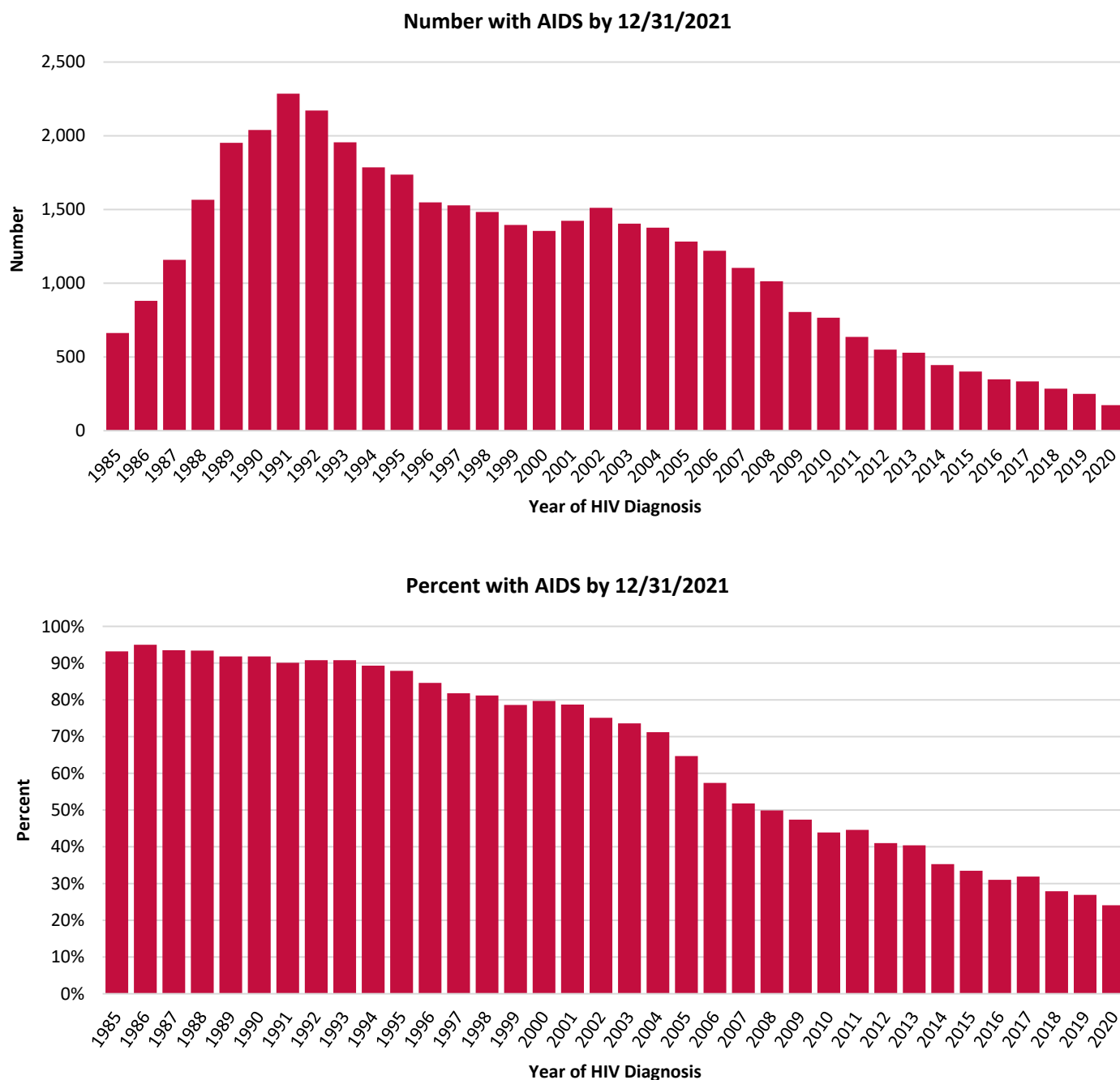
Estimated or Reported Exposure Category	Total People Aged 13+ with Living Diagnosed HIV				
	No.	Recent Viral Load Test Results			Median Unsuppressed Viral Load
		No. with Test	% with Test	% Suppressed	
Male-to-male Sexual Contact (MMSM)	13,089	9,563	73.1%	89.7%	10,200
Injection Drug Use (IDU)	4,981	3,641	73.1%	88.5%	9,540
Male-to-male Sexual Contact and Injection Drug Use (MMSM/IDU)	1,118	832	74.4%	87.2%	8,910
Heterosexual Contact (HET)	12,404	8,784	70.8%	90.8%	7,860
Perinatal Transmission	426	343	80.5%	72.9%	9,312
Other Exposure	45	35	77.8%	100.0%	--
No Estimated or Reported Exposure	86	63	73.3%	79.4%	6,960
Total	32,149	23,260	72.4%	89.6%	9,325

Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. Median unsuppressed is weighted based on statistical adjustment.

Section VIII – Disease Progression and Mortality

Figure 10 – Trends in Disease Progression by Year of HIV Diagnosis, 1985-2020, Reported through June 30, 2022

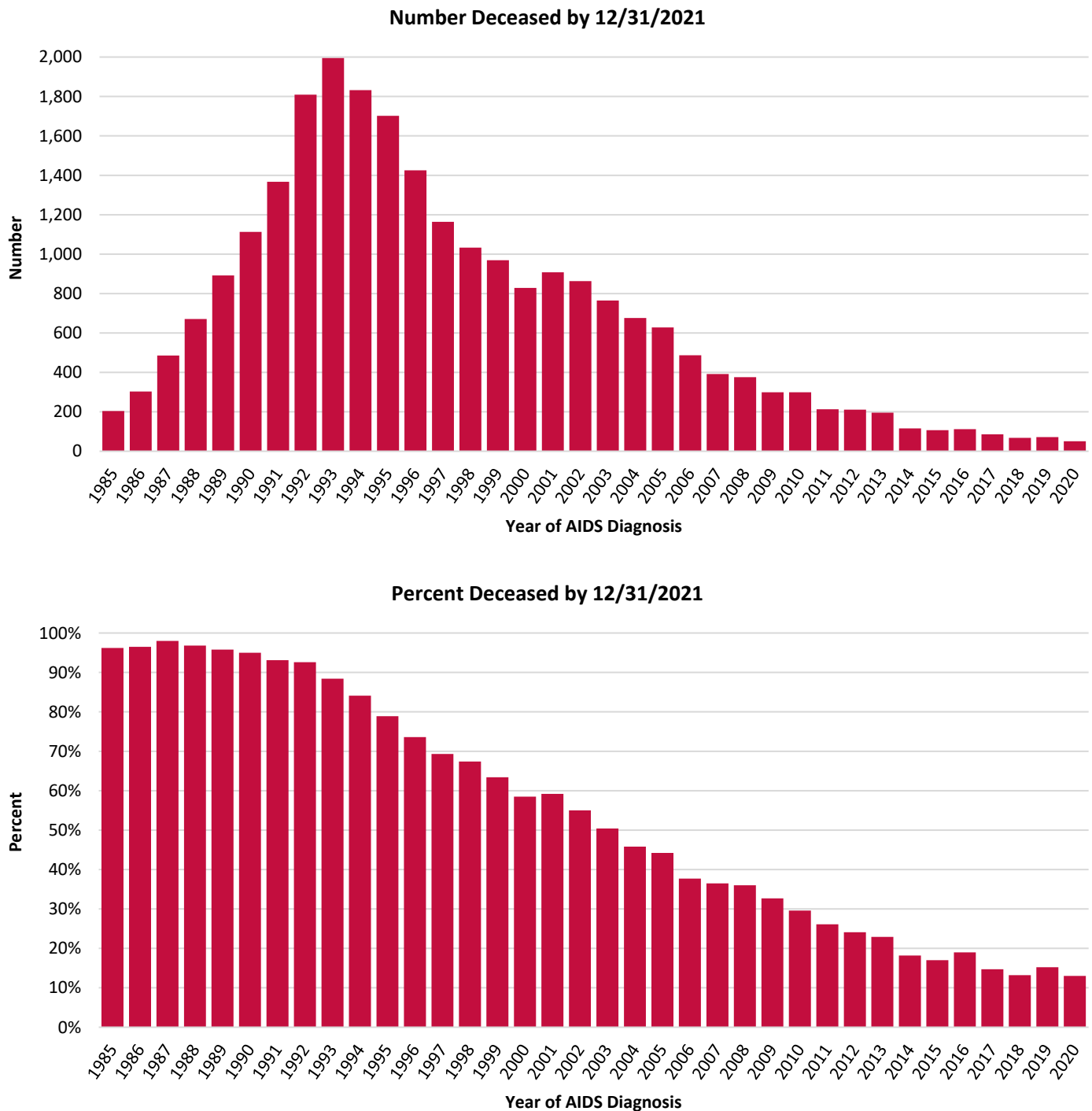
Number of People Aged 13+ with Diagnosed HIV, Aged 13+ at HIV Diagnosis, (Reported HIV Diagnoses among People Aged 13+), Number of People Aged 13+ with Diagnosed HIV with an AIDS Diagnosis by December 31, 2021 (Reported AIDS Diagnoses), Percent by Year of HIV Diagnosis of Reported HIV Diagnoses with a Reported AIDS Diagnosis among People Aged 13+ by December 31, 2021, the Average Years from HIV Diagnosis to AIDS Diagnosis for People with an AIDS Diagnosis, and the Percent by Year of HIV Diagnosis of Reported HIV Diagnoses with a Reported AIDS Diagnosis among People Aged 13+ at 1 Year, 2 Years, 5 Years, and 10 Years after HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2020, Reported through June 30, 2022



Reported HIV Diagnoses among People Aged 13+								
Year of HIV Diagnosis	No.	Reported AIDS Diagnoses			Percent with AIDS by Years After HIV Diagnosis			
		No.	% with AIDS	Mean Years from HIV to AIDS	1 Year	2 Years	5 Years	10 Years
<1985	382	366	95.8%	7.3	37.2%	37.2%	40.3%	65.2%
1985	710	662	93.2%	6.3	31.0%	32.5%	40.4%	75.4%
1986	927	881	95.0%	5.3	36.1%	37.2%	49.0%	82.3%
1987	1,240	1,159	93.5%	4.5	37.9%	40.4%	57.2%	83.6%
1988	1,677	1,566	93.4%	3.9	40.5%	44.5%	65.7%	86.2%
1989	2,126	1,952	91.8%	3.5	41.1%	45.9%	69.1%	85.0%
1990	2,221	2,039	91.8%	3.2	44.0%	51.1%	72.8%	85.5%
1991	2,536	2,286	90.1%	2.9	46.5%	55.6%	74.1%	84.3%
1992	2,392	2,171	90.8%	2.8	49.6%	58.4%	74.9%	83.8%
1993	2,155	1,956	90.8%	2.3	55.7%	63.9%	77.4%	86.1%
1994	2,001	1,786	89.3%	2.3	57.3%	64.4%	75.6%	83.9%
1995	1,975	1,737	87.9%	2.4	58.1%	63.6%	72.6%	82.4%
1996	1,830	1,548	84.6%	2.2	59.0%	63.1%	70.8%	79.7%
1997	1,867	1,528	81.8%	2.2	55.6%	60.1%	68.6%	76.7%
1998	1,826	1,483	81.2%	2.2	55.9%	59.8%	67.7%	75.7%
1999	1,774	1,395	78.6%	2.0	56.5%	60.5%	67.8%	74.2%
2000	1,700	1,355	79.7%	2.1	54.9%	58.9%	67.9%	75.4%
2001	1,808	1,423	78.7%	1.9	56.1%	59.8%	68.5%	74.2%
2002	2,012	1,511	75.1%	1.9	54.1%	57.8%	64.7%	70.8%
2003	1,907	1,404	73.6%	1.8	53.6%	57.0%	62.9%	70.0%
2004	1,934	1,377	71.2%	2.0	50.3%	53.7%	59.6%	67.1%
2005	1,983	1,283	64.7%	2.0	45.8%	48.8%	54.8%	61.3%
2006	2,126	1,220	57.4%	2.2	38.3%	40.7%	47.8%	54.0%
2007	2,131	1,104	51.8%	2.3	32.2%	35.0%	41.9%	48.8%
2008	2,029	1,013	49.9%	2.1	31.4%	34.6%	42.1%	47.5%
2009	1,698	805	47.4%	2.2	29.7%	32.4%	39.3%	45.7%
2010	1,743	766	43.9%	2.0	28.0%	30.7%	36.7%	42.5%
2011	1,425	636	44.6%	1.7	30.4%	33.8%	38.0%	43.8%
2012	1,341	550	41.0%	1.4	29.5%	32.2%	37.0%	--
2013	1,308	529	40.4%	1.2	31.3%	32.8%	36.8%	--
2014	1,260	445	35.3%	1.1	25.7%	28.2%	32.8%	--
2015	1,198	401	33.5%	1.0	25.6%	27.9%	31.4%	--
2016	1,122	348	31.0%	0.8	24.8%	26.9%	30.4%	--
2017	1,048	334	31.9%	0.5	27.4%	28.8%	--	--
2018	1,020	285	27.9%	0.4	25.1%	26.5%	--	--
2019	928	250	26.9%	0.3	24.9%	26.1%	--	--
2020	718	173	24.1%	0.1	23.5%	--	--	--
Total	60,078	41,727	69.5%	2.5	43.0%	47.1%	56.6%	65.1%

Figure 11 – Trends in Survival Times by Year of AIDS Diagnosis, 1985-2020, Reported through June 30, 2022

Number of People Aged 13+ with Diagnosed HIV, Aged 13+ at HIV Diagnosis, with an AIDS Diagnosis by December 31, 2020 (Reported AIDS Diagnoses), Number of Reported AIDS Diagnosis among People Aged 13+ Reported to Have Died of Any Cause by December 31, 2021 (Reported AIDS Deaths), Percent by Year of AIDS Diagnosis of Reported AIDS Diagnoses with a Reported AIDS Death (Percent Dead) among People Aged 13+ by December 31, 2021, the Average Years from AIDS Diagnosis to Death for People that have Died, and the Percent by Year of AIDS Diagnosis of Reported AIDS Diagnoses among People Aged 13+ Not Reported to Have Died (Percent Alive) at 1 Year, 2 Years, 5 Years, and 10 Years after AIDS Diagnosis, by Year of AIDS Diagnosis from 1985 through 2020, Reported through June 30, 2022



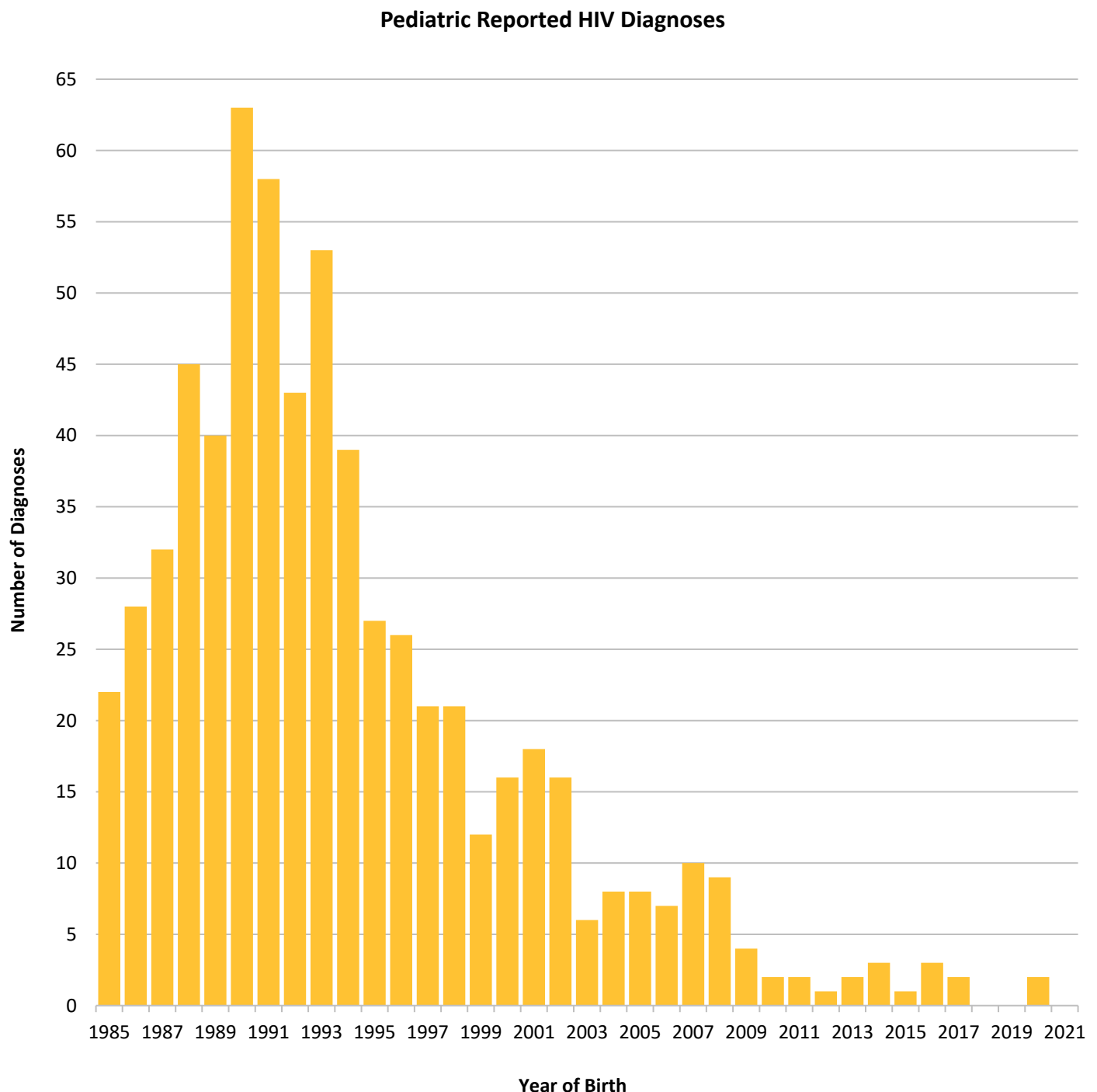
Year of AIDS Diagnosis	Reported AIDS Diagnoses among People Aged 13+							
	No.	Reported AIDS Deaths			Percent Alive by Years After AIDS Diagnosis			
		No.	% Deceased	Mean Years from AIDS to Death	1 Year	2 Years	5 Years	10 Years
<1985	146	141	96.6%	1.7	43.2%	21.2%	11.0%	8.2%
1985	212	204	96.2%	1.7	42.5%	19.8%	11.3%	6.1%
1986	314	303	96.5%	2.2	51.3%	33.1%	13.1%	8.3%
1987	496	486	98.0%	2.2	57.1%	31.7%	11.1%	5.8%
1988	693	671	96.8%	2.3	60.6%	38.1%	14.0%	6.5%
1989	931	892	95.8%	3.0	64.0%	43.6%	17.8%	9.8%
1990	1,171	1,113	95.0%	3.2	66.7%	48.0%	21.3%	12.1%
1991	1,469	1,367	93.1%	2.9	68.4%	48.2%	18.9%	12.8%
1992	1,954	1,809	92.6%	3.4	71.9%	50.6%	22.3%	16.3%
1993	2,256	1,995	88.4%	4.1	77.2%	56.5%	33.2%	22.4%
1994	2,179	1,832	84.1%	4.4	78.1%	59.0%	39.8%	26.7%
1995	2,158	1,702	78.9%	5.8	78.7%	67.6%	51.8%	37.6%
1996	1,935	1,425	73.6%	6.2	82.2%	75.6%	60.1%	43.3%
1997	1,680	1,164	69.3%	6.7	85.5%	78.3%	63.7%	48.6%
1998	1,532	1,033	67.4%	6.7	87.0%	80.8%	66.1%	49.3%
1999	1,528	969	63.4%	6.4	87.4%	81.0%	66.7%	51.9%
2000	1,416	829	58.5%	6.6	88.2%	83.6%	69.7%	56.4%
2001	1,535	908	59.2%	5.9	86.6%	79.6%	66.6%	55.0%
2002	1,570	863	55.0%	6.3	88.9%	83.9%	71.8%	59.9%
2003	1,519	765	50.4%	5.5	85.8%	80.4%	70.7%	61.2%
2004	1,476	676	45.8%	5.7	88.8%	84.3%	74.9%	65.5%
2005	1,421	628	44.2%	5.8	89.4%	85.4%	76.5%	67.8%
2006	1,291	487	37.7%	4.9	89.5%	85.7%	77.5%	68.6%
2007	1,075	392	36.5%	4.8	89.5%	86.5%	79.5%	69.3%
2008	1,045	376	36.0%	4.6	89.4%	85.5%	78.6%	70.1%
2009	913	299	32.7%	4.2	90.5%	87.4%	80.1%	70.6%
2010	1,011	299	29.6%	4.1	91.7%	88.9%	82.8%	72.6%
2011	817	213	26.1%	3.9	93.9%	90.9%	83.0%	74.7%
2012	877	211	24.1%	3.4	91.6%	89.7%	83.8%	--
2013	856	196	22.9%	3.0	92.5%	89.3%	83.5%	--
2014	636	116	18.2%	2.5	92.5%	89.6%	86.2%	--
2015	631	107	17.0%	1.9	92.2%	90.0%	84.6%	--
2016	591	112	19.0%	1.5	90.4%	86.8%	81.9%	--
2017	587	86	14.7%	1.3	93.2%	89.1%	--	--
2018	515	68	13.2%	1.0	91.7%	89.9%	--	--
2019	474	72	15.2%	0.7	88.8%	85.7%	--	--
2020*	392	51	13.0%	0.3	88.5%	--	--	--
Total	41,302	24,860	60.2%	4.6	82.7%	73.2%	59.1%	49.2%

*2020 AIDS deaths are preliminary.

Section IX – Pediatrics

**Figure 12 – Trends in Reported HIV Diagnoses among People Aged <13, 1985-2021,
Reported through June 30, 2022**

Number of Pediatric HIV Diagnoses, Age <13 at HIV Diagnosis, (Pediatric Reported HIV Diagnoses) by Year of Birth, by Year of HIV Diagnosis, by Year of AIDS Diagnosis, and by Year of Death Due to Any Cause, and Number of Children with Diagnosed HIV, Age <13 at HIV Diagnosis, and Not Reported to have Died as of December 31st of Each Year (Total Living Pediatric Diagnoses) from 1985 through 2021, as Reported by Name through June 30, 2022



Year	Number of Pediatric Reported HIV Diagnoses				Total Pediatric Diagnoses Alive on December 31st of Each Year
	By Birth Year	By HIV Diagnosis Year	By AIDS Diagnosis Year	By Death Year	
<1985	55	5	3	0	--
1985	22	13	8	2	17
1986	28	15	6	4	28
1987	32	21	14	5	44
1988	45	29	19	6	67
1989	40	37	25	8	96
1990	63	54	23	9	141
1991	58	59	35	12	188
1992	43	65	39	12	239
1993	53	56	36	16	277
1994	39	41	29	16	302
1995	27	28	23	20	309
1996	26	36	26	19	324
1997	21	18	12	7	335
1998	21	20	12	6	348
1999	12	24	13	5	365
2000	16	16	5	1	380
2001	18	14	11	5	389
2002	16	14	8	4	399
2003	6	6	3	6	398
2004	8	11	6	5	405
2005	8	8	5	1	412
2006	7	15	7	4	424
2007	10	43	10	5	462
2008	9	15	8	3	476
2009	4	10	7	2	485
2010	2	3	8	6	484
2011	2	3	8	5	484
2012	1	3	3	4	486
2013	2	3	11	3	487
2014	3	6	4	1	493
2015	1	0	8	3	491
2016	3	4	7	4	492
2017	2	3	3	3	494
2018	0	4	9	3	495
2019	0	0	6	2	496
2020	2	1	2	2	495
2021	0	2	3	1	497
Total	705	705	465	220	--

Table 23 – People Aged <13 Living with Diagnosed HIV, Alive on December 31, 2021, by Jurisdiction of Current Residence, Reported through June 30, 2022

Jurisdiction of Current Residence	Total People Aged <13 Living with Diagnosed HIV	
	No.	% of Total
Allegany	2	5.9%
Anne Arundel	1	2.9%
Baltimore City	8	23.5%
Baltimore	4	11.8%
Calvert	0	0.0%
Caroline	0	0.0%
Carroll	1	2.9%
Cecil	2	5.9%
Charles	4	11.8%
Dorchester	1	2.9%
Frederick	0	0.0%
Garrett	0	0.0%
Harford	1	2.9%
Howard	2	5.9%
Kent	0	0.0%
Montgomery	3	8.8%
Prince George's	5	14.7%
Queen Anne's	0	0.0%
Saint Mary's	0	0.0%
Somerset	0	0.0%
Talbot	0	0.0%
Washington	0	0.0%
Wicomico	0	0.0%
Worcester	0	0.0%
Corrections	0	0.0%
Total	34	100.0%

Table 24 – People Aged <13 Living with Diagnosed HIV, Alive on December 31, 2021, by Sex at Birth and Race/Ethnicity, Reported through June 30, 2022

Demographic Characteristic	Total People Aged <13 Living with Diagnosed HIV	
	No.	% of Total
Sex at Birth		
Female	21	61.8%
Male	13	38.2%
Race/Ethnicity		
Hispanic	1	2.9%
Non-Hispanic	33	97.1%
American Indian/Alaska Native, only	0	0.0%
Asian, only	1	2.9%
Black, only	26	76.5%
Native Hawaiian/Other Pacific Islander, only	0	0.0%
White, only	5	14.7%
Multiracial/Other	1	2.9%
Total	34	100.0%

Table 25 – Perinatal HIV Transmissions by Year of Birth, 2012-2021

Year of Birth	Live Births	People of Childbearing Age Living with Diagnosed HIV	Reported Perinatal HIV Exposures	Confirmed Perinatal HIV Transmission		
	No.	No.	No.	No.	%	Rate
2012	72,751	6,696	183	1	0.5%	1.4
2013	71,806	6,770	163	1	0.6%	1.4
2014	73,588	6,345	202	3	1.5%	4.1
2015	73,544	6,468	152	0	0.0%	0.0
2016	73,073	6,078	185	3	1.6%	4.1
2017	71,589	5,724	169	1	0.6%	1.4
2018	71,037	5,234	162	0	0.0%	0.0
2019	70,130	5,062	168	0	0.0%	0.0
2020	68,546	4,630	151	2	1.3%	2.9
2021	--	4,592	156	0	0.0%	--
Total	646,064	57,599	1,691	11	0.7%	1.7

Live births from Maryland Vital Statistics Annual Report 2021. Perinatal HIV exposures and transmissions are based on residence at birth.

Glossary of Terms

Age at AIDS Diagnosis: Age group at time of initial AIDS diagnosis.

Age at HIV Diagnosis: Age group at time of initial HIV diagnosis.

Age on [date]: Age group of people living with diagnosed HIV on the specified date.

Another Gender Identity: All other gender identities or gender expressions.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of people living with diagnosed HIV with a CD4 test distributed by their CD4 count results (cells per microliter).

CD4 With Test: Number and percent of total people aged 13+ living with diagnosed HIV with a recent CD4 test result.

Cisgender Man or Boy: A person whose sex assigned at birth is male and who identify as a man or boy.

Cisgender Woman or Girl: A person whose sex assigned at birth is female and who identify as a woman or girl.

Confirmed Perinatal HIV Transmission: Reported babies born to a woman living with diagnosed HIV, with a confirmed HIV diagnosis and a resident of Maryland at time of birth.

Corrections: Residence in a state or federal prison in Maryland. Does not include local jails and detention centers.

Current Residence: Jurisdiction of residence from the most recent report since January 1, 2009.

Female: A person whose sex assigned at birth is female.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

First CD4 Test Result Percent with Test: Percent of reported HIV diagnoses among people aged 13+ with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

Gender Expression: People's outward presentation of their gender which may or may not conform to socially defined behaviors and characteristics typically associated with being either masculine or feminine.

Gender Identity: Refers to one's internal understanding of one's own gender, or the gender with which a person identifies.

HIV Diagnosed: Number of people who have received an HIV diagnosis in a given time period, regardless of when they were first infected.

HIV Infected/Prevalence: Estimated number of people with HIV alive at a given time, regardless of when they were infected or whether they have received a diagnosis.

Heterosexual Contact (HET): Individuals who report a history of sexual contact with a person of the opposite sex who is known to be HIV positive or at increased risk for HIV transmission. Risk groups include bisexual men, IDUs and recipients of blood, blood components, transplants of organ or tissue, and artificial insemination.

Injection Drug Use (IDU): Individuals who report receiving an injection, either self-administered or given by another person, of a drug that was not prescribed by a physician.

Jurisdiction of Current Residence: Jurisdiction of residence from the most recent report since January 1, 2009.

Jurisdiction of Residence: Jurisdiction of residence at diagnosis or current residence.

Jurisdiction of Residence at AIDS Diagnosis: Jurisdiction of residence at time of initial AIDS diagnosis.

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at the later time of initial HIV diagnosis or time of initial AIDS diagnosis.

Jurisdiction of Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 3 months after their initial HIV diagnosis.

Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month after their initial HIV diagnosis.

Live Births: Babies born alive in the general population.

Male: A person whose sex assigned at birth is male.

Mean Years from HIV Diagnosis: Mean or average number of years from initial HIV diagnosis to initial AIDS diagnosis for people living with a reported AIDS diagnosis.

Mean Years from AIDS diagnosis to AIDS Death: Mean or average number of years from initial AIDS diagnosis to death for adult/adolescent reported AIDS diagnoses with a reported death.

Median Count: Median CD4 count (cells per microliter), among total people aged 13+ living with diagnosed HIV, of the most recent CD4 test result measured in the specified year.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among people aged 13+ living with diagnosed HIV of the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Male-to-male Sexual Contact (MMSC): Men who report a history of sexual contact with other men (homosexual contact) including men who report sexual contact with both men and women (bisexual contact).

Male-to-male Sexual Contact/Injection Drug Use (MMSC/IDU): Men who report a history of sexual contact with other men who also have engaged in injection drug use.

Other Exposure: Includes people who received clotting factor for hemophilia/coagulation disorder, or received a transfusion of blood/blood components, or received a transplant of tissue/organs or artificial insemination, or worked in a health care or clinical laboratory setting.

People Aged 13+ Living with Diagnosed HIV: Reported HIV diagnoses, age 13 years or older as of December 31st of the specified year and not reported to have died as of December 31st of the specified year.

People Living with Diagnosed HIV: Reported HIV diagnoses not reported to have died as of December 31st of the specified year.

People of Childbearing Age Living with Diagnosed HIV: Reported HIV diagnoses among people of childbearing age (13-49 years old) with childbearing potential.

Percent Change: The percent change in number of total people aged 13+ living with diagnosed HIV from residence at diagnosis to current residence.

Percent Alive by Years after AIDS Diagnosis: Percent of adult/adolescent reported AIDS diagnoses not reported to have died at 1 year, 2 years, 5 years and 10 years after initial AIDS diagnosis, by year of AIDS diagnosis.

Percent Late HIV Diagnosis: Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 3 months prior to their initial AIDS diagnosis.

Percent Suppressed: Percent of total people aged 13+ living with diagnosed HIV with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

Percent with AIDS by Years after HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses in the specified year with an initial AIDS diagnosis at 1 year, 2 years, 5 years and 10 years after HIV diagnosis.

Perinatal Transmission: When HIV is passed from a person with childbearing potential living with HIV to the baby during pregnancy, childbirth (also called labor and delivery), or breastfeeding (through breast milk).

Perinatal HIV Transmission Number: Number of confirmed perinatal HIV transmissions among reported perinatal HIV exposures.

Perinatal HIV Transmission Percent: Percent of confirmed perinatal HIV transmissions among reported perinatal HIV exposures.

Perinatal HIV Transmission Rate: Number of confirmed perinatal HIV transmissions divided by the number of live births multiplied by 100,000.

Population: Population estimate for July 1, 2021.

Population Aged 13+: Population age 13 years or older, estimate for July 1, 2021.

Rate: Number of people living with diagnosed HIV divided by the population and multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 person living with diagnosed HIV in the population, or 1 person living with diagnosed HIV in every X number of people.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

Reported AIDS Deaths: Reported HIV diagnoses with an AIDS diagnosis, reported to have died of any cause during the specified year.

Reported AIDS Diagnoses: Reported HIV diagnoses with an initial AIDS diagnosis during the specified year.

Reported AIDS Diagnoses among People Aged 13+: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Reported HIV Diagnoses: Reported HIV diagnoses with an initial HIV diagnosis during the specified year.

Reported HIV Diagnoses among People Aged 13+: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Reported Perinatal HIV Exposures: Reported babies born to a person of childbearing age (13-49 years old) with childbearing potential living with HIV during the specified year, with a residence of Maryland at time of birth.

Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or initial AIDS diagnosis.

Retained in HIV Care: HIV diagnosed with a reported CD4 or viral load test result performed or reported antiretroviral use in the specified year.

Suppressed Viral Load: HIV diagnosed with the most recent viral load measured in the specified year of less than 200 copies per milliliter.

Suppressed Viral Load – 6 Months: HIV diagnosed with a viral load of less than 200 copies per milliliter measured in the first six months after HIV diagnosis.

Total People Aged 13+ Living with Diagnosed HIV: Reported HIV diagnoses, age 13 years or older as of December 31st of the specified year not reported to have died as of December 31st of the specified year.

Total People Aged <13 Living with Diagnosed HIV: Reported HIV diagnosis, age less than 13 years at HIV diagnosis and not reported to have died as of December 31st of the specified year.

Total People Living with Diagnosed HIV: Reported HIV diagnoses not reported to have died as of December 31st of the specified year.

Transgender Man or Boy: A person whose sex assigned at birth is female but who identify as a man or boy.

Transgender Woman or Girl: A person whose sex assigned at birth is male but who identify as a woman or girl.

Viral Load With Test: Number and percent of total people aged 13+ living with diagnosed HIV with a recent viral load test result.